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**FIGURE 1122**

TGTCCGGCGCCCCCGGGAGGGAAC TGGGTGGCCGCACCCTCCCGGCTGCGGTGGCTGTGCGCCCCCACCCTGCA  
GCCAGGACTCGATGGAGAATCCATTCCAATATATGGCCATGTGGCTCTTTGGAGCAATGTTCCATCATGTTCCAT  
GCTGCTGCTGACGTCACATGGAGCACAGAAATCAATGTTAGCAGATAGCCAGCCCATACAAGATCGTATTGTATT  
GTAGGAGGCATCGTGGATGGATGGCTGCTGGAAACCCCTTGCCATAGCCAGCTCTTCTTCAATACTTAAGGATTT  
ACCGTGGCTTTGAGTAATGGAGAATTTGAAACCACATTTGAGAAGTATTTCCATCCAGTGCTACTTGTGTTTACT  
TCTAAACAGTCATTTTCTAACTGAAGCTGGCATTTCATGTCTTCATTTTGGGCTGTTTCAGTGCAGGGCTTCCTAA  
AACAGAAGCCAACTGGGTGAATGTAATAAGTGATTTGAAAAAAATTGAAGATCTTATTCAATCTATGCATATTGA  
TGCTACTTTATATACGGAAAGTGATGTTACCCCCAGTTGCAAAGTAACAGCAATGAAGTGCTTTCTCTTGGAGTT  
ACAAGTTATTTCACTTGAGTCCGGAGATGCAAGTATTCATGATACAGTAGAAAATCTGATCATCCTAGCAAACAA  
CAGTTTGTCTTCTAATGGGAATGTAACAGAATCTGGATGCAAAGAATGTGAGGAACTGGAGGAAAAAAATATTAA  
AGAATTTTGCAGAGTTTGTACATATTGTCCAAATGTTTCATCAACACTTCTTTGATTGCAATTGATTCTTTTAA  
AGTGTTTCTGTTATTAAACAAACATCACTCTGCTGCTTAGACATAACAAAACACTCGGCATTTAAATGTGCTGTC  
AAAACAAGTTTTTCTGTCAAGAAGATGATCAGACCTTGGATCAGATGAACCTTTAGAAATGAAGGCAGAAAAATG  
TCATTGAGTAATATAGTGACTATGAACCTTCTCTCAGACTTACTTTACTCATTTTTTTAATTTATTATTGAAATTG  
TACATATTTGTGGAATAATGTAAATGTTGAATAAAAAATATGTACAAGTGTTGTTTTTTAAGTTGCACTGATATT  
TTACCTCTTATTGCAAAATAGCATTTGTTTAAGGGTGATAGTCAAATTATGTATTGGTGGGGCTGGGTACCAATG  
CT

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**FIGURE 1123**

MRISKPHLRSSISIQCYLCLLLNSHFLTEAGIHVFILGCF SAGLPKTEANWVNVISDLKKIEDLIQSMHIDATLYT  
ESDVHPSCCKVTAMKCFLLELQVISLESGDASIHDTVENLIILANNSLSSNGNVTESGCKECEEELEEKNIKEFLQS  
FVHIVQMFINITS

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**FIGURE 1124**

GGAGAAGGCGAGCGCGGCAGTCGCGCCGGCGCTGGGCGAGGAAGCGGAGCCGGGCCGCTCCGGAAAATGGCTCC  
AAAGGTTAAATGAAGCAGGAAAAATACATAGATGCAGCCTTGCAGCCTCTCCAGATGTTTGGGGATAATATTCCA  
GATAGAAATATTGATCCCTTGGATTAGGTAAGTATGTCATAATGAAGAAAATTAGTCTTAAACCTTACGGAAATC  
TTTTAACTTGAATAAAAAGTAAAGAAGAACTGATTTTCATGGTAGTACAACAACCATCGCTAGCCAGTGACTTTGG  
AAAAGATGATTCTTATTGTTAGCTGCTATGGTAAAGATATGGCCAGCTGCGATATCAACGGTGAAGATGAAAA  
AGGCGGAAAAACAGATCAAAAAGCGAGAGCCTGATGGGTACGCTAAAAAGGCGGCTTTCTGCAAAACAGAAGTC  
AAAAGGCAAGGCGGGCACACCCTCTGGGAGCTCTGCCGACGAGGACACCTTCTCCTCCTCCTCAGCACCCATAGT  
CTTTAAAGACGTGAGAGCTCAGAGGCCGATAAGGTCCACGTCGCTCCGCAGCCATCACTACAGTCCCGCGCCGTG  
GCCTCTGCGGCCCCACAACTCCGAGGAGACCTGCATCAAGATGGAGGTGAGAGTCAAGGCCTTGTTTCACTCTTC  
CAGCCCCGAGTCCAGCCCTGAATGGCGTCCGGAAGGATTTCCACGACCTCCAGTCTGAGACCACGTGCCAGGAGCA  
AGCCAATTCAGTGAAGAGCTCGGCTTCTCATAATGGAGACCTGCATCTTCACCTGGATGAACATGTGCCTGTCTGT  
TATTGGACTTATGCCTCAGGACTACATTAGTATACTGTGCCTTTAGATGAGGGGATGTATCCTTTTGAAGGATC  
ACGGAGCTATTGTCTGGACAGCTCTTCTCCCATGGAAGTCTCTGCGGTTCTCCTCAAGTGGGAGGGCGCGCTTT  
CCCCGAGGATGAGAGTCAGGTAGACCAGGACCTAGTTGTGCCCCAGAGATCTTCGTGGATCAGTCCGTGAATGG  
CTTGTTGATTGGCACCACGGGAGTCATGTTGCAGAGCCCCGAGAGCGGGTCACGATGATGTCCCTCCACTCTCACC  
ATTGCTACCTCCAATGCAGAATAATCAAATCCAAAGGAACCTTCAGTGGACTCACTGGCACAGAAGCCCACGTGGC  
TGAAAGTATGCGCTGTCATTTGAATTTTGATCCGAACCTCTGCTCCTGGGGTTGCAAGAGTTTATGACTCAGTGCA  
AAGTAGTGGTCCCATGGTTGTGACAAGCCTTACAGAGGAGCTGAAAAAACTTGCAAAGCAAGGATGGTACTGGGG  
ACCAATCACACGTTGGGAGGCAGAAGGGAAGCTAGCAAACGTGCCAGATGGTTCTTTTCTGTTTCGGGACAGTTC  
TGACGACCGTTACCTTTTTAAGCTTGAGCTTTTCGCTCCCATGGTAAAAACACTTCACACTAGAATTGAGCACTCAAA  
TGGTAGGTTTAGCTTTTTATGAACAGCCAGATGTGGAAGGACATACGTCCATAGTTGATCTAATTGAGCATTCAAT  
CAGGGACTCTGAAAAATGGAGCTTTTTTGTTATTCAAGGTCTCGGCTGCCTGGATCTGCAACTTACCCCGTCAGACT  
GACCAACCCAGTGTCCCGGTTTCATGCAGGTGCGCTCGTTGCAGTACCTGTGTCTGTTTTGTTATACGTCAGTATAC  
CAGAATAGACTTAATTCAGAACTGCCTTTGCCAAACAAAATGAAGGATTATTTACAGGAGAAGCACTACTGAAA  
GATTGAGAACCCCTGCATCTTGCACTTTGGGAATAAGAACAAGAGATTGAAATACAGTTTACAACTTTTCATTGCC  
ATCAAAATCTTTTGCTGCCATAACTATTTTCAGTTTTATGTGTAAGAGTCATCAGTTTGTGTTAGGGGTGGGGAA  
GTGTCAGCAAGGTGTCTTGGGTTTATTTTGGTTCTTTAAAAAAGGGAAGTCTTGAGGTTTTAGAGGTGTGAATTA  
TGTTTCATCAATGTGCAGAATAATCACAATGTGAATTATCAAATCTCCTCAATGCCCCCCCCGCCCAGTCCCTT  
GCTGCTATCCACTGTGATTTTTATGCATTAAGACACATTTTCATGTGTATTCAACCCTAAGTAAAGTTGAATGAA  
ACTTAACAGAAATGGAAATTGCTATGTCTTTTAAATGGTCCATTTTCAAAGACAGTGTGTAATAAACATACCTG  
TGTGATAAAACACAGAATTTACATATACACTGAAGATGAGTTTTAATCTCTTACTTTAAAAAGATTTATTTAGA  
ATCGTGAATTGACATAATCTTGGGTAATGGAACGGAGATCTGCAACATATCTTTTAAACAACACTTTTTCTAAAT  
TATTTCTAAGGTTGTGCTAATCTTTTGGTTGTGAAAAGTTGAATTTTTCTGTTGCCTTCGTTTTTCATCTTCTAG  
TTTGTCTATTTTAAATAAATGGCCTTACATTAAAAAATTGTAAAGAAATGTATACCACCAATTTAGAAATTGTGTC  
CTTTTCTGTAATTAACTCGGGTACAAATTGGCATAACATGAAAACCTATGGAAGTGAATTATTATTAAAGAAA  
TATTAGATGAAAAA

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**FIGURE 1125**

MKKISLKT LRKSFNLNKSKEETDFMVVQQPSLASDFGKDDSLFGSCYGKDMASCDINGEDEKGGKNRSKSESLMG  
TLKRRLSAKQKSKGKAGTPSGSSADEDTFSSSSAPIVFKDVRAQRPIRSTSLRSHHYSAPWPLRPTNSEETCIK  
MEVRVKALVHSSSPSPALNGVRKDFHDLQSETTCQEQANSLKSSASHNGDLHLHLDEHVPVIGLMPQDYIQYTV  
PLDEGMYPLEGSRSYCLDSSSPMEVSAVPPQVGGRAPEDESQVDQDLVVAPEIFVDQSVNGLLIGTTGVMLQSP  
RAGHDDVPPLSPLLPPMQNNQIQRNFSGLTGTEAHVAESMRCHLNFDPN SAPGVARVYDSVQSSGPMVVTSLTEE  
LKKLAKQGWWGPITRWEAEGKLANVPDGSFLVRDSSDDRYLLSLSFRRSHGKTLHTRIEHSNGRFSFYEQPDVEG  
HTSIVDLIEHSIRDSENGAFCYSRSLPGSATYPVRLTNPVSRFMQVRSLQYLCRFVIRQYTRIDL IQKLPLPNK  
MKDYLQEKHY



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**FIGURE 1126**

GTACCGGTTTCGGAATTCCCGGGTCGACCCACGCGTCCGGAAGGCTACAGAGAGAGCCAGGTTTTGGTGCCATGCA  
CACAGGGAAACTTAGAGTTCAGAGAGGGGGTGTGATTTCGCTGACCTCACACAGCAAGTTAGAGACCCAGCTCCA  
CGACTCATTGTCTTGCTGCCCAGAGCTGCTGGCTCCCCTGTTTACTCTGAGCTGATCGATCACCTTAGCACACAG  
CTGGCTAGGAGAGAACCATGCAGTCACTTCGGCCACACCTGCCCGTTGACCCTTGCTACCTCGGCAGGCTTTGAT  
CCCTTCTGACCTGGAGGCCAGAGGCTAGGCTGAGGTCACTCAGCAGACATCAAGGACCTGGGCAGATGGGCCGGC  
TGGGATGGTGGCGAGCTGTACAGATAAAAAGGGACATGAAAATGAAAAGCCCGAGCCTGAGTTTTTCATCACGGTT  
CCACTCCTGAGTGGTCTTGGGTGAATCACTTCATCTGCCAAGGCCTGGATTTCCTCATCTGCAAACCTCAGAAAAC  
TAAGGCTTTGGCCCTCGTCATCCTGCCACCCAGCGGGGCTTCCCAACCCACCACACAGCCATGGACGGGAAGGT  
GGCAGTGCAAGAGCGTGGGCCTCCTGCGGTCTCCTGGGTCCCCGAGGAGGGAGAGAAGTTGGACCAGGAAGACGA  
GGACCAGGTGAAGGATCGGGGCCAATGGACCAACAAGATGGAGTTTGTGCTGTCAGTGGCCGGGGAGATCATTGG  
GCTGGGCAATGTCTGGAGGTTTCCCTATCTCTGCTACAAAACGGAGGTGGAGCCTTCTTCATCCCCTACTTCAT  
CTTCTTCTTTGTCTGCGGCATCCCGGTGTTCTTCTGAGGTGGCGTTGGGCCAATACACCAGCCAAGGGAGTGT  
CACAGCCTGGAGGAAGATCTGCCCCCTCTTCCAGGGCATTGGTCTGGCATCTGTGGTCATCGAGTCATATTTGAA  
TGTCTACTACATCATCATCCTTGCCCTGGGCTCTCTTCTACCTGTTAGCTCCTTCACTTCTGAGCTGCCCTGGAC  
GACCTGCAACAACTTTTGGAACACAGAGCATTGCACGGACTTTCTGAACCACTCAGGAGCCGGGCACAGTGACCCC  
ATTTGAGAATTTTACCTCACCTGTCAATGAATTTCTGGGAGAGACGAGTTCTGGGCATCACCTCGGGCATCCATGA  
CCTGGGCTCCCTGCGCTGGGAGCTGGCCCTGTGCCTCCTGCTCGCCTGGGTCATCTGCTATTTCTGCATCTGGAA  
GGGGGTCAAGTCCACAGGCAAGGTGGTTTTATTTACAGCCACGTTTCCGTACCTGATGCTTGTCATTTTGTCTGAT  
CAGAGGTGTCACCCCTTCCCGGAGCCTACCAGGGCATCATCTACTACTTGAAGCCAGATTTGTTCCGCCTCAAGGA  
CCCTCAGGTGTGGATGGATGCGGGCACCCAGATCTTCTTCTCCTTTGCCATCTGCCAGGGGTGCCTGACAGCCCT  
GGGCAGCTACAACAAGTATCACAACAAGTGTACAAGGACTGCATCGCCCTCTGCTTCTGAACAGTGCCACCAG  
CTTTGTGGCTGGGTTTTGTTGTCTTCTCCATCCTGGGCTTCATGTCCCAAGAGCAAGGGGTGCCATTTCTGAAGT  
GGCCGAGTCAGGTCTTGGGCTGGCCTTCATCGCCTTCCCCAAGGCTGTGACTATGATGCCCTTATCCCAGCTGTG  
GTCCTGCCTGTTCTTTATCATGCTCATATTTCTAGGGCTGGACAGCCAGTTTGTCTGTGTGGAGTGCCTGGTGAC  
AGCCTCCATAGACATGTTCCCCAGGCAGCTCCGGAAGAGCGGGCGGCGAGCTCCTCATCCTCACCATCGCCGT  
CATGTGCTACCTGATAGGGCTTTTCTGGTACCGAGGGCGGGATGTACATCTTCCAGCTGTTTGACTACTATGC  
TTCCAGTGGCATATGCCTGCTGTTCTTGTCTATTGTTTGAAGTGGTCTGCATAAGCTGGGTGTATGGGGCGGACCG  
TTTCTATGACAACATTGAGGACATGATTGGCTACCGGCCATGGCCCCCTGGTGAAGATCTCCTGGCTCTTCTGAC  
CCCTGGACTTTGCTGGCCACTTTCTCTTCTCCTTGAGCAAGTACACCCCCCTCAAGTACAACAACGTCTATGT  
GTACCCGCCCTGGGGATACTCCATTGGCTGGTTCTTGGCTCTGTCTCCTCCATGGTCTGTGTCCCACTCTTCTGCT  
CATCACCTCCTGAAGACTCGGGGTCCTTTAGGAAGCGTCTGCGTCACGTCATCACCCCTGACTCCAGTCTGCC  
ACAGCCCAAGCAACATCCCTGCTTGGATGGCAGTGTGCGCGGAACCTTTGGGCCCTCCCCAACAAGGGAAGGACT  
GATAGCCGGGGAGAAGGAGACCCATTTGTAGGGTGTGGCCAGAGCGAGGCGGCTCCTAAGCCGGGAACCTAGGTC  
AGGGCCACCCCTCCATTCTCAGCGGACAGCCTCTGCCTCTGTCTCCTGCCACAATCCTGCTGGGAACCTCTGGAGAG  
CCACAGGCACCCCCAGCTGGAGGCCAGACTCCTCTCTTGTGCTAGCTGGAGCAGCTCCTTCCCCTTTGCTGATAA  
CACCACCACTGGGACGTGCCATGTTGGGACGCCACTCCCTGTGGAAGGCACCATCGTTTTTATAAAGGGGGGTCT  
TTTTGGAGGCCGCCATCTGATTGCAACACCTCGAGTTATGAGGATTCCACTGTGGGGATGCCTCTTGTTAGAGCG  
TACTGCATTTGTACACGGGGAGAGGAGCTATAATTGGAACGCACACTGCCGTCCAATGTGGAGAGCCTGATGGGA  
CAATACCCTGTTGGAAGTGACAACCTGAACACACTGTGTTGGATCGGAGGTTCCGTTAGGGGATCCTTCCCTTAGGC  
TTAACGACAGAGGCAAGCCTTTGCATGCCGTGAGTCTGGAGTTTCTCCTCCGAGTCTCTCATGGCATCTCCAGCTCC  
TGCCCTAGTTCCGCACTGTTCTTGCAGTGTTCATCAACTCCTGGAGCATTTGGAATGGAAGGGGCTTGGGAGATG  
ATTCTAGACTTCACAAAACCTCGGCATGCCTCCCTGCACTGTCCGTTCCCTCTGCCCAAGGCCGATATTGCTAAC  
TGATCACAGATTCTTTCCACCTCACAATCCTCCGAATGTGCTCCAGGCGACACCATTGCCATCCTGCTTCTAA  
CGCAAACCCCTGACTTCATGGATGAGGAACCTGGAGACCAAAGAGACAAAGGGACTTTTTCAAGTTACATGGGG  
ACCCCTTCTTGGGGGCCAGAGATATGACTAAAACCTTATCTCCTTGTGCTCAGGCCAGTGTCTTCCCATTAACC  
CCCTGCCTTAGTTAACAAGTGTGTATGGATTGCCA

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**FIGURE 1127**

MDGKVAVQERGPPAVSWVP EEGEKL DQEDEDQVKDRGQWTNKMEFVLSVAGEIIIGLGNVWRFPYLCYKNGGGAFF  
IPYFIFFFVCGIPVFFLEVALGQYTSQGSVTAWRKICPLFQIGIGLASVVI ESYLN VYYYIIILAWALFYLFSSFTS  
ELPWITC NNFWNTEHCTDFLNHSGAGTVTPFENFTSPVMEFWERRVLGITSGI HDLGSLRWELALCLLLAWVICY  
FCIWKG VKSTGKV VYFTATFPYLM LVILLIRGVTLPGAYQGIIYYLKPDLFRLKDPQVWMDAGTQIFFSFAICQG  
CLTALGSYNKYHNNCYKDCIALCFLNSATSFVAGFV VFSILGFMSQEQGVPISEVAESGPGLAFIAFPKAVTMMP  
LSQLWSCLFFIMLIFLGLDSQFVCVECLVTASIDMFPRQLRKSGRRELLILTIAVMCYLIGLFLVTEGGMYIFQL  
FDYYASSGICLLFLSLFEVVCISWVYGADRFYDNIEDMIGYRPWPLVKISWLFLTPGLCLATFLFSLSKYTPLKY  
NNVYVYPPWGYSIGWFLALSSMVCVPLFVVITLLKTRGPFKRRLRHVITPDSSLPQPKQHPCLDGSAGRNF GPSP  
TREGLIAGEKETHL

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**FIGURE 1128**

CTTTTTAAGCTCCCCTGAGCCGGTGCTGCGCTCCTCTAATTGGGACTCCGAGCCGGGGCTATTTCTGGCGCTGGC  
GCGGCTCCAAGAAGGCATCCGCATTTGCTACCAGCGGCGGCGCGGCGGAGCCAGGCCGGTCTCAGCGCCCAGC  
ACCGCCGCTCCCGGCAACCCGGAGCGCGCACCCGAGGCCGGCGGCGGAGCTCGCGCATCCCAGCCATCACTCTTC  
CACCTGCTCCTTAGAGAAGGGAAG**ATG**AGTGAGTCGAGCTCGAAGTCCAGCCAGCCCTTGGCCTCCAAGCAGGAA  
AAGGACGGCACTGAGAAGCGGGGCCGGGGCAGGCCGCGCAAGCAGCCTCCGAAGGAGCCCAGCGAAGTGCCAACA  
CCTAAGAGACCTCGGGGCCGACCAAAGGGAAGCAAAAACAAGGGTGCTGCCAAGACCCGAAAACCACCACAAC  
CCAGGAAGGAAACCAAGGGGCAGACCCAAAAAACTGGAGAAGGAGGAAGAGGAGGGCATCTCGCAGGAGTCCTCG  
GAGGAGGAGCAG**TGA**CCCCATGCGTGCCGCCTGCTCCTCACTGGAGGAGCAGCTTCCTTCTGGGACTGGACAGCTT  
TGCTCCGCTCCCACCGCCCCCGCCCCCTTCCCCAGGCCACCATCACACCGCCTCTGGCCGCCACCCCCATCTTC  
CACCTGTGCCCTCACCACTACACAGCACACCAGCCGCTGCAGGGTCCCATGGGCTGAGTGGGGAGCAGT  
TTTCCCCTGGCCTCAGTTCCCAGCTCCCCCGCCCACCCACGCATACACATGCCCTCCTGGACAAGGCTAACA  
TCCCACCTAGCCGCACCCTGCACCTGCTGCGTCCCCACTCCCTTGGTGGTGGGGACATTGCTCTCTGGGCTTTTG  
GTTTGGGGGCGCCCTCTCTGCTCCTTCACTGTTCCCTCTGGCTTCCCATAGTGGGGCCTGGGAGGGTTCCCTGG  
CCTTAAAGGGGGCCCAAGCCCCATCTCATCCTGGCAGCCCTACTCCACTGCCCTGGCAGCAGCAGGTGTGGCCA  
ATGGAGGGGGGTGCTGGCCCCCAGGATTCCCCCAGCCAAACTGTCTTTGTACCACGTGGGGCTCACTTTTCATC  
CTTCCCCAACTTCCCTAGTCCCCGTACTAGGTTGGACAGCCCCCTTCGGCTACAGGAAGGCAGGAGGGGTGAGTC  
CCCTACTCCCTCTTCACTGTGGCCACAGCCCCCTTGCCCTCCGCTGGGATCTGAGTACATATTGTGGTGATGGA  
GATGCAGTCACTTATTGTCCAGGTGAGGCCCAAGAGCCCTGTGGCCGCCACCTGAGGTGGGCTGGGGCTGCTCCC  
CTAACCTACTTTGCTTCCGCCACTCAGCCATTTCCCCCTCCTCAGATGGGGCACCATAACAAGGAGCTCACCC  
TGCCCGCTCCCAACCCCCCTCCTGCTCCTCCCTGCCCCCAAGGTTCTGGTTCCATTTTTCTCTGTTCACAAAC  
TACCTCTGGACAGTTGTGTTGTTTTTTGTTCAATGTTCCATTCTTCGACATCCGTCATTGCTGCTGCTACCAGCG  
CCAAATGTTTATCCTCATTGCCTCCTGTTCTGCCCACGATCCCCTCCCCCAAGATACTTTTGTGGGGAAGAGGG  
GCTGGGGCATGGCAGGCTGGGTGACCGACTACCCAGTCCCAGGGAAGGTGGGGCCCTGCCCCTAGGATGCTGCA  
GCAGAGTGAGCAAGGGGGCCCGAATCGACCATAAAGGGTGTAGGGGCCACCTCCTCCCCCTGTTCTGTTGGGGAG  
GGGTAGCCATGATTTGTCCAGCCTGGGGCTCCCTCTCTGGTTTCCTATTGTCAGTTACTTGAATAAAAAAATA  
TCCTTTTCTGGA

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**FIGURE 1129**

MSESSSKSSQFLASKQEKDGTGTEKRGRGRPRKQPPKEPSEVPTPKRPRGRPKGSKNKGAATRKTTPGRKPRGR  
PKKLEKEEEEESISQESSEEEQ

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**FIGURE 1130**

GCATTTCTTCCTTCTGCGTATGGGACAGGACCCTTTCTGGAATGGGGGTCTTATGACCTACAATCAAACAAGAAC  
ATGGACTTCCCGTGCCCTCTGGCTAGGGCTGTTGCTGCCTTTGGTAGCTGCGCTGGATTTCAACTACCACCGCCAG  
GAAGGGATGGAAGCGTTTTTTGAAGACTGTTGCCCAAACCTACAGTTCTGTCACTCACTTACACAGTATTGGGAAA  
TCTGTGAAAGGTAGAAAACCTGTGGGTTCCTTGTGTGGGGCGGTTTTCCAAAGGAACACAGAATTGGGATTCCAGAG  
TTCAAATACGTGGCAAATATGCATGGAGATGAGACTGTTGGGCGGGAGCTGCTGCTCCATCTGATTGACTATCTC  
GTAACCAGTGATGGCAAAGACCCTGAAATCACAAATCTGATCAATAGTACCCGGATACACATCATGCCTTCCATG  
AACCAGATGGATTTGAAGCCGTCAAAAAGCCTGACTGTTACTACAGCATCGGAAGGGAAAATTATAACCAGTAT  
GACTTGAATCGAAATTTCCCCGATGCTTTTGAATATAATAATGTCTCAAGGCAGCCTGAAACTGTGGCAGTCATG  
AAGTGGCTGAAAACAGAGACGTTTGTCTCTCTGCAAACCTCCATGGTGGTGCCCTCGTGGCCAGTTACCCATTT  
GATAATGGTGTTC AAGCAACTGGGGCATTATACTCCCGAAGCTTAACGCCTGATGATGATGTTTTTCAATATCTT  
GCACATACCTATGCTTCAAGAAATCCCAACATGAAGAAAGGAGACGAGTGTA AAAACAAAATGAAC TTTTCTTAAT  
GGTGTACAAATGGATACTCTTGGTATCCACTCCAAGGTGGAATGCAAGATTACAAC TACATCTGGGCCCAGTGT  
TTTGAAATTACGTTGGAGCTGTCATGCTGTAAATATCCTCGTGAGGAGAAGCTTCCATCCTTTTGGAAATAATAAC  
AAAGCCTCATTAATTGAATATATAAAGCAGGTGCACCTAGGTGTAAAGGGTCAAGTTTTTGATCAGAATGGAAAT  
CCATTACCCAATGTAATTGTGGAAGTCCAAGACAGAAAACATATCTGCCCTATAGAACCAACAAATATGGAGAG  
TATTATCTCCTTCTCTTGCCTGGGTCTTATATTATAAATGTTACAGTCCCTGGACATGATCCACACATCACAAG  
GTGATTATTCCGGAGAAATCCCAGAACTTCAGTGCTCTTAAAAAGGATATTCTACTTCCATTCCAAGGGCAATTG  
GATTCTATCCAGTATCAAATCCTTCATGCCAATGATTCTCTATACAGAAATTTGCCAGACCACTCAGCTGCA  
ACAAAGCCTAGTTTGTTCCTTATTTTTTAGTGAGTCTTTTGCACATATTCTTCAAAT TAAAGTAAATGTGAAACTCA  
ACCCACATCACCACCTGGAATCAGGGATTGCTCACTCCAGGTTACTGCAACCCTAACTCACTCTAGTGGGACCTT  
GACTGGAGAAACTCCACGATCTTCTGAAGAAGAGAAATGGATGTTTCCAAATTCACAATAAGCAATATGTGGT  
GATAATGAAAAGAAATGATTGAGTCTTGACGGTGAATGGAAGACACTTACCTAACAAGTACTGCTCATTTACACTC  
AAATTAATCTTGAAGTAGTCTTAAAATGTGTAAGAAGTTAAAACTTGAGAAGCAAAAAATGCCTGCAAAAAGAAG  
ATCATTTTGTATACAGAGAACCGGATGAATATAAGCAATGAAGATGAACATTTATTGATCTTCTACATACAAGAC  
TTCACCATAAGGCCAGGAGCAGTGCTCACGCCTTGTAATCCCAGCACTTTGGGAGGCCAAGGTGGGCGGATCACC  
TTGAGGTCAGGAGTTCAAGACCAGCCTGACCAACATGGTGAAAACCTGTCTCTACTAAATATTAGCGGGGTGTGG  
TGGCGGGCACCTGTAGTCGCAGCCTTTTGGGAGGCTGAGACAGGAGAATCGCTTGAACCCTAGAGGCGGAGTTTG  
CAGTGAGCCGAGATAGTGCCATTGTACTCCAGCTTGGGCAACAGAGTAAGACTCTGTCTC

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**FIGURE 1131**

MDFFCLWLGLLLPLVAALDFNYHRQEGMEAFKLTVAQNYSSVTHLSIGKSVKGRNLWVLVVGRFPKEHRIGIPE  
FKYVANMHGDETVGRELLHLIDYLVTS DGKDPEITNLINSTRIHIMPSMNPDGFEAVKKPDCYYSIGRENNQY  
DLNRNFPDAFEYNNVSRQPETVAVMKWLKTETFVLSANLHGGALVASYPFDNGVQATGALYSRSLTPDDDDVFQYL  
AHTYASRNPNMKGDECKNKMNF PNGVTNGYSWYPLQGGMQDYN IWAQCFEITL ELSCCKYPREEKLPSFWNNN  
KASLIEYIKQVHLGVKGQVFDQNGNPLPNVIVEVQDRKHICPYRTNKYGEYLLLLPGSYIINVTVPGHDPHITK  
VIIPEKSQNF SALKKDILLPFQGLDSIPVSNPSCPMIPLYRNLPDHS AATKPSLFLFLVSL LHIFFK

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**FIGURE 1132**

GCTGCCCCCTGAACCCCAAGCAACCAAGCTGGATCAGTTCTCACAGGAGCTACAGGCCGGAGACTGGGAAACATGG  
TTCCAAAACCTGTTCACTTCCCAAATTTGTCTGCTTCTTCTGTTGGGGCTTCTGGCTGTGGAGGGCTCACTCCATG  
TCAAACCTCCACAGTTTACCTGGGCTCAATGGTTTGAAACCCAGCACATCAATATGACCTCCAGCAATGCACCA  
ATGCAATGCAGGTCAATTAACAATTATCAACGGCGATGCAAAAACCAAAATACTTTCCTTCTTACAACCTTTTGCTA  
ACGTAGTTAATGTTTGTGGTAACCCAAATATGACCTGTCCTAGTAACAAAACCTCGCAAAAATTGTCACCACAGTG  
GAAGCCAGGTGCCTTTAATCCACTGTAACTCACAACCTCCAAGTCCACAGAATATTTCAAACCTGCAGGTATGCGC  
AGACACCAGCAAAACATGTTCTATATAGTTGCATGTGACAACAGAGATCAACGACGAGACCCTCCACAGTATCCGG  
TGGTTCCAGTTCACCTGGATAGAATCATCTTAAGCTCCTGTATCAGCACTCCTCATCATCACTCATCTGCCAAGCT  
CCTCAATCATAGCCAAGATCCCATCTCTCCATATACTTTGGGTATCAGCATCTGTCCTCATCAGTCTCCATACCC  
CTTCAGCTTTCTGAGCTGAAGTGCCTTGTGAACCTGCAATAAACTGCTTTGCAAATTC

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**FIGURE 1133**

MVPKLFTSQICLLLLLGLLAVEGSLHVKPPQFTWAQWFETQHINMTSQQCTNAMQVINNYQRRCKNQNTFLLTTF  
ANVVNVCGNPNMTCPSNKTRKNCHHSGSQVPLIHCNLTPSPQNISNCRYAQT PANMFYIVACDNRDQRRDPPQY  
PVVPVHLDRII



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**FIGURE 1134**

CATGGATTTCGACATTGCTGGACCTGCCACAGGCTGGGCTCTTGCTAGAAATGACTTGCTAGCTAGACATCAT  
GGTTCAGGATCTGAGTCAGAGGTTTAACCATTATAAGCTTTTTTCTTATGAAAAATTGGCACTAATTATAATGT  
CTAACTGTCAGAGTTGTTGCAGGCTTTACAGGAGACGCGGGCTGTGAAGATGCTTTGTAAATTGTGAAGCGTTAT  
TAAAGAACACATCTTTTTTTTTAGGAAACCACGGTGCAAATTTAATTGCCGGGGAAGATAACGGGCCTTGGTGCC  
CTCCAAGCGTCAGCTGAGTTTCCAAGAAGCCGGGCAGCGGGCGCCCGCGGGTTCGTCTCTGGCTCCTCCTCCGCC  
ACAGCAGCCGGGGGGCCCGGGTCCGAGGCGGGCGGGGGCCGAGCGCCCGGCCTCGCAAGCCCACGGCCCGCTGGGGG  
TGCCGTCCCGCGCCGGGGCGGAGCAGGCCCGGCAGCCCCAGTTCCTCATTCTATCAGCGGTACAAGGGGCTGGTG  
GCGCCACAGGCGCTGGGACCGCGGGCGGACAAGGATGGGTCCGCGCGGCGCGGCGAGCTTGCCCCGAGGCCCCGG  
ACCTCGGCGGCTGCTCCTCCCCGTGCTCCTCCCGCTGCTGCTGCTGCTGTTGTTGGCGCCGCCGGGCTCGGGCGC  
CGGGGCCAGCCGGCCGCCCCACCTGGTCTTCTTGCTGGCAGACGACCTAGGCTGGAACGACGTGGGCTTCCACGG  
CTCCCGCATCCGCACGCCGCACCTGGACGCGCTGGCGGCCGGCGGGTGCTCCTGGACAATACTACTACACGCAGCC  
GCTGTGCACGCCGTGCGGAGCCAGCTGCTCACTGGCCGCTACCAGATCCGTACAGGTTTACAGCACCAAATAAT  
CTGGCCCTGTGAGCCAGCTGTGTTCTCTGGATGAAAACTCCTGCCCCAGCTCCTAAAAGAAGCAGGTTATAC  
TACCCATATGGTCGGAATAATGGCACCTGGGAATGTACCGGAAAGAATGCCTTCCAACCCGCCGAGGATTTGATAC  
CTACTTTGGATATCTCCTGGGTAGTGAAGATTATTATTTCCCATGAACGCTGTACATTAATTGACGCTCTGAATGT  
CACACGATGTGCTCTTGATTTTCGAGATGGCGAAGAAGTTGCAACAGGATATAAAAAATATGTATTCAACAAACAT  
ATTACCAAAGGGCTATAGCCCTCATAACTAACCATCCACCAGAGAAGCCTCTGTTTCTCTACCTTGCTCTCCA  
GTCTGTGCATGAGCCCTTCAGGTCCCTGAGGAATACTTGAAGCCATATGACTTTATCCAAGACAAGAACAGGCA  
TCACTATGCAGGAATGGTGTCCCTTATGGATGAAGCAGTAGGAAATGTCACTGCAGCTTTAAAAGCAGTGGGCT  
CTGGAACAACACGGTGTTTCATCTTTCTACAGATAACGGAGGGCAGACTTTGGCAGGGGGTAATAACTGGCCCCCT  
TCGAGGAAGAAAAATGGAGCCTGTGGGAAGGAGCGTCCGAGGGGTGGGCTTTGTGGCAAGCCCCCTTGCTGAAGCA  
GAAGGGCGTGAAGAACCGGGAGCTCATCCACATCTCTGACTGGCTGCCAACACTCGTGAAGCTGGCCAGGGGACA  
CACCAATGGCACAAAGCCTCTGGATGGCTTCGACATGTGGAATAACATCAGTGAAGGAAGCCCATCCCCAGAAT  
TGAGCTGCTGCATAATATTGACCCGAACCTTCGTGGACTCTTACCCTGTCCCAGGAACAGCATGGCTCCAGCAAA  
GGATGACTCTTCTCTTCCAGAATATTACGCCCTTTAACACATCTGTCCATGCTGCAATTAGACATGGAAATTGGAA  
ACTCCTCACGGGCTACCCAGGCTGTGGTTACTGGTTCCCTCCACCCTCTCAATACAATGTTTCTGAGATACCCTC  
ATCAGACCCACCAACCAAGACCCTCTGGCTCTTTGATATTGATCGGGACCCTGAAGAAAGACATGACCTGTCCAG  
AGAATATCCTCACATCGTCACAAAGCTCCTGTCCCGCCTACAGTTCTACCATAAACACTCAGTCCCCGTGTACTT  
CCCTGCACAGGACCCCCGCTGTGATCCCAAGGCCACTGGGGTGTGGGGCCCTTGATGTAGGATTTAGGGAGGC  
TAGAAAACCTTTCAATTGGAAGTTGGACCTCAGGCCTTTTCTCACGACTCTTGCTCATTGTGTTATCCCAACCTG  
GGTTCACTTGCCCTTCTCTTGCTCTTAAACCACACCGAGGTGTCTAATTTCAACCCCTAATGCATTTAAGAAGC  
TGATAAAATCTGCAACACTCCTGCTGTTGGCTGGAGCATGTGTCTAGAGGTGGGGTGGCTGGGTTTATCCCCCT  
TTCCTAAGCCTTGGGACAGCTGGGAACCTTAACCTGAAATAGGAAGTTCTCACTGAATCCTGGAGGCTGGAACAGC  
TGGCTCTTTTAGACTCACAAGTCAGACGTTTCGATTCCCTCTGCCAATAGCCAGTTTTATTGGAGTGAATCACAT  
TTCTTACGCAAATGAAGGGAGCAGACAGTGATTAATGGTTCTGTTGGCAAGGCTTCTCCCTGTCCGTGAAGGATC  
ATGTTACGGCACTCCAAGTGAACCACCCCTCTTGGTTACCCCTTACTCACTTATCTCATCACAGAGCATAAGGC  
CCATTTTGTGTTTCAGGTCAACAGCAAAATGCCTGCACCATGACTGTGGCTTTTAAATAAAGAAATGTGTTTTT  
ATCG

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**FIGURE 1135**

MGPRGAASLPRGPGPRRLLLPVVLPLLLLLLLAPPGSGAGASRPHLVFLLADDLGWNDVGFHGSRI RTPHLDAL  
AAGGVLLDNYYTQPLCTPSRSQLLTG RYQIRTGLQHQIIWPCQPSCVPLDEKLLPQLLKEAGYTTHMVGKWHLGM  
YRKECLPTRRGFD TYFGYLLGSEDYYSHERCTLIDALNVTRCALDFRDGEEVATGYKNMYSTNIFTKRAIALITN  
HPPEKPLFLYLALQSVHEPLQVPEEYLPYDFIQDKNRHHYAGMVSLMDEAVGNVTAALKSSGLWNNTVFIFSTD  
NGGQTLAGGNNWPLRGRKWSLWEGGVRGVGFVASPLLKQKGVKNRELIHISDWLPTLVKLARGHTNGTKPLDGFD  
MWKTISEGSPSPRIELLLHNIDPNFVDSSPCPRNSMAPAKDDSSLPEYSAFN TSVHAAIRHGNWKLLTGYPGCGYW  
FPPPSQYNVSEIPSSDPPTKTLWLFDIDRDPEERHDL SREYPHIVTKLLSRLQFYHKHSVPVYFPAQDPRCDPKA  
TGVWGPWM

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**FIGURE 1136**

GCAGGCCTTGCCCGGACCAGCCCCCTCCTCCACTCTCCTCTCCCCTGTGAGCTCCACCTGCCCCAGTTCTCCTGGC  
TTTAACCCCTCCTTGGCCAAGGCCAGGGTTGCCTGCGGGAGCCAGGCGTCCGCTCTCCACACCTTTCACAGATCC  
TACCCAGGCCACCACCCCGAACCCCTCCGACCCTGCGTTCCATCCCACCATCAACCTCCACGTGAATCTGCACCT  
CTGCCCCAGCCCCAGCCCTCAGAGCAACCTCAGCCCAGCCCAGCCCAGCTCCAGCTCCAGCTCCAGCCCCGGGCC  
CATCATGGCCAAGGACTTTCAAGATATCCAGCAGCTGAGCTCGGAGGAAAATGACCATCCTTTCCATCAAGGTGA  
GGGGCCAGGCACTCGCAGGCTGAATCCCAGGAGAGGAAATCCATTTTTGAAAGGGCCACCTCCTGCCCAGCCCCCT  
GGCACAGCGTCTCTGCTCCATGGTCTGCTTCAGTCTGCTTGCCCTGAGCTTCAACATCCTGCTGCTGGTGGTCAT  
CTGTGTGACTGGGTCCCAAAGTGAGGGTCACAGAGGTGCACAGCTGCAAGCCGAGCTGCGGAGCCTGAAGGAAGC  
TTTCAGCAACTTCTCCTCGAGCACCTTGACGGAGGTCCAGGCAATCAGCACCCACGGAGGCAGCGTGGGTGACAA  
GATCACATCCCTAGGAGCCAAGCTGGAGAAACAGCAGCAGGACCTGAAAGCAGATCACGATGCCCTGCTCTTCCA  
TCTGAAGCACTTCCCCGTGGACCTGCGCTTCGTGGCCTGCCAGATGGAGCTCCTCCACAGCAACGGCTCCCAAAG  
GACCTGCTGCCCCGTCAACTGGGTGGAGCACCAAGGCAGCTGCTACTGGTTCTCTCACTCCGGAAGGCCTGGGC  
TGAGGCGGAGAAGTACTGCCAGCTGGAGAACGCACACCTGGTGGTCATCAACTCCTGGGAGGAGCAGAAATTCAT  
TGTACAACACACGAACCCCTTCAATACCTGGATAGGTCTCACGGACAGTGATGGCTCTTGGAAATGGGTGGATGG  
CACAGACTATAGGCACAACCTACAAGAACTGGGCTGTCACTCAGCCAGATAATTGGCACGGGCACGAGCTGGGTGG  
AAGTGAAGACTGTGTTGAAGTCCAGCCGGATGGCCGCTGGAACGATGACTTCTGCCTGCAGGTGTACCGCTGGGT  
GTGTGAGAAAAGGCGGAATGCCACCGGCGAGGTGGCCTGACCCAGCACACCTCTGGCTAACCCATACCCACAC  
CTGCCCAGCTCTGGCTTCTCTGTTGAGGATTTTGGAGAAAGGAAGAAACACTGAGACAGGGGTATGGGGAAGAGC  
TGAGCAAAGAGAGAAAGGAGGTAGTTTAAGAGTCCCTGACCCTGGAGGACTGAGATCCCACCTCCTTCTGTAAAT  
CATTGTAATTATTATAATCGTCAGCCTCTTCAATGGCGTAGGAAAGAAGAAACAAATGCTTGAATCTC

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**FIGURE 1137**

MAKDFQDIQQLSSEENDHPFHQGPppAQPLAQRLCSMVCFSLALSFNILLVVICVTGSQSEGHGAQLQAELR  
SLKEAFSNFSSSTLTEVQAISTHGGSVGDKITSLGAKLEKQQQDLKADHDALLFHLKHFPVDLRFVACQMELLHS  
NGSQRTCCPVNWVEHQGSCYWFSHSGKAWAEAEKYCQLENAHLVVINSWEEQKFIVQHTNPFNTWIGLTDSDGSW  
KWVDGTDYRHNYKNWAVTQPDNWHGHELGGSEDCVEVQPDGRWNDDFCLQVYRWVCEKRRNATGEVA

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**FIGURE 1138**

GAGAAATTGGAGAAGATAAACTGGACACTGGGGAGACCACAACCTTC**ATG**CTGCGTGGGATCTCCCAGCTACCTG  
CAGTGGCCACCATGTCTTGGGTCCTGCTGCCTGTACTTTGGCTCATTGTTCAAACCTCAAGCAATAGCCATAAAGC  
AAACACCTGAATTAACGCTCCATGAAATAGTTTGTCTAAAAAACTTCACATTTTACACAAAAGAGAGATCAAGA  
ACAACCAGACAGAAAAAGCATGGCAAAGAGGAAAGGTATGAACCTGAAGTTCAATATCAGATGATCTTAAATGGAG  
AAGAAATCATTCTCTCCCTACAAAAACCAAGCACCTCCTGGGGCCAGACTACACTGAAACATTGTACTCACCCA  
GAGGAGAGGAAATTACCACGAAACCTGAGAACATGGAACACTGTTACTATAAAGGAAACATCCTAAATGAAAAGA  
ATTCTGTTGCCAGCATCAGTACTTGTGACGGGTTGAGAGGATACTTCACACATCATCACCAAAGATACCAGATAA  
AACCTCTGAAAAGCACAGACGAGAAAGAACATGCCGTCCTTACATCTAACCAGGAGGAACAAGACCCAGCTAACC  
ACACATGTGGTGTGAAGAGCACTGACGGGAAACAAGGCCCAATTCGAATCTCTAGATCACTCAAAAGCCCAGAGA  
AAGAAGACTTTCTTCGGGCACAGAAATACATTGATCTCTATTTGGTGCTGGATAATGCCTTTTATAAGAACTATA  
ATGAGAATCTAACTCTGATAAGAAGCTTTGTGTTTGTATGTGATGAACCTACTCAATGTGATATATAACACCATAG  
ATGTTCAAGTGGCCTTGGTAGGTATGGAATCTGGTCTGATGGGGATAAGATAAAGGTGGTGGCCAGCGCAAGCA  
CCACGTTTGACAACCTCCTGAGATGGCACAGTTCTAACCTGGGGAAAAAGATCCACGACCATGCTCAGCTTCTCA  
GCGGGATTAGCTTCAACAATCGACGTGTGGGACTGGCAGCTTCAAATTCCTTGTGTTCCCCATCTTCGGTTGCTG  
TTATTGAGGCTAAAAAAAAGAATAATGTGGCTCTTGTAGGAGTGATGTCACATGAGCTGGGCCATGTCCTTGGA  
TGCCTGATGTTCCATTCAACACCAAGTGTCCCTCTGGCAGTTGTGTGATGAATCAGTATCTGAGTTCAAATTC  
CAAAGGATTTTCAGTACATCTTGCCGTGCACATTTTGAAAGATACCTTTTATCTCAGAAACCAAAGTGCCTGCTGC  
AAGCACCTATTCCTACAAATATAATGACAACACCAGTGTGTGGGAACCACTTCTAGAAGTGGGAGAAGACTGTG  
ATTGTGGCTCTCCTAAGGAGTGTACCAATCTCTGCTGTGAAGCCCTAACGTGTAACTGAAGCCTGGAAGTGAAT  
GCGGAGGAGATGCTCCAAACCATAACCACAGAG**TGA**ATCCAAAAGTCTGCTTCACTGAGATGCTACCTTGCCAGGA  
CAAGAACCAAGAACTCTAACTGTCCAGGAATCTTGTGAATTTTACCCATAATGGTCTTTCACTTGTCAATTCTA  
CTTTCTATATTGTTATCAGTCCAGGAAACAGGTAAACAGATGTAATTAGAGACATTGGCTCTTTGTTTAGGCCTA  
ATCTTTCTTTTTACTTTTTTTTTTCTTTTTTCTTTTTTTTAAAGATCATGAATTTGTGACTTAGTTCTGCCCTT  
TGGAGAACAAAAAGAAAGCAGTCTTCCATCAAATCACCTTAAAAATGCACGGCTAAACTATTAGAGTTAACTCC  
AGAATTGTTAAATTACAAGTACTATGCTTTAATGCTTCTTTTCTTACTAGTATGGCCTATAAAAAAATAATA  
CCACTTGATGGGTGAAGGCTTTGGCAATAGAAAGAAGAATAGAATTCAGGTTTTATGTTATTCCTCTGTGTTAC  
TTCGCCCTTGCTCTTGAAAGTGCAGTATTTTTCTACATCATGTGCGAGAATGATTCAATGTAAATATTTTTCATTTT  
ATCATGTATATCCTATACACACATCTCCTTCATCATCATATATGAAGTTTATTTTGAGAAGTCTACATTGCTTAC  
ATTTTAATTGAGCCAGCAAAGAAGGCTTAATGATTTATTGAACCATAATGTCAATAAAAACACAACTTTTGAGGC

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**FIGURE 1139**

MLRGISQLPAVATMSWVLLPVLWLIVQTQAIAIAIKQTPELTLHEIVCPKKLHILHKREIKNNQTEKHGKEERYEPE  
VQYQMILNGEEIILSLQKTKHLLGPDYTETLYSPRGEEITTKPENMEHCYYKGNILNEKNSVASISTCDGLRGYF  
THHHQRYQIKPLKSTDEKEHAVFTSNQEEQDPANHTCGVKSTDGKQGPIRISRSLKSPEKEDFLRAQKYIDLVLV  
LDNAFYKNYNENLTLIRSFVFDVMNLLNVIYNTIDVQVALVGMEIWSGDGDIKVVPSASTTFDNFLRWHSNLGK  
KIHDHAQLLSGISFNRRRVGLAASNLCSPSSVAVIEAKKKNNVALVGVMSELGHVVGMPDVPFNTKCPSGSCV  
MNQYLSSKFPKDFSTSCRAHFERYLLSQKPKCLLQAPIPTNIMTTPVCGNHLLEVGEDCDCGSPKECTNLCCEAL  
TCKLKPGTDCGGDAPNHTTE

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**FIGURE 1140A**

CTTTTTGTAGGGAGAAGGGCAGGATGTTTTAACTGAATGTGACCTCAGGGGAATACTAGAGAAAATAATAAAAT  
TTCTGAATGGGGCAGCGTGGAGAAATCCTAAGAGAAATAGCATAAGAGCATTTTGGAACACATCCAGGAAAAGAT  
AAGTTTCGACACACCTGTAGACGTTCCGCCAGGTAAAGGAGTGATGGAACTCTCCAGTTCAGATCCAGTAGCTTT  
TAGGGAAGGAACCTACAGTTGCTGACTTAAGTTGAAGAAGCATCTATTTAATGTCTGGTCAAATCCTACAAGAAAC  
ACAGAAATCTATGATTAAAAAGCTGAGCACTTTGATATACTGCAAAGGGTAGAGAAAGGCAGGACGGTAGAAATTT  
TCTGCAAGAAAGAATGAATTTTCAAGATTATCACTAAATAAGACAAAGTCATTTATTTAGTCCCCCTGACACAGC  
AGGGCAAACCTGAGTTGACATACAAGTTACCTGGAGAAAAAGAGAGCAATTCCAGGACTTCCTCTTCAGCCTAAAA  
GAAGGTACCAGATCTGTGCACTGGGGCGATGTGGAAGAGACCTGCTTATTGCCCTGATGTAAGCTCCAGTAAGA  
AAAGACGTCAAGTACAAGTACTAGGAAATCACTTTATACATCTGTTTATAGGAATGACCTCAGGACTTTGTGTTT  
ATGTTATAGATGATGATGCAGAGGCTGAAGATAAAACGCTGCGTACTCGCTCTAAAGGAACCGAGGTGCCAATGGAT  
TCACTAATCCAGGAGCTCAGTGTGCTTATGATTGCTCCATGGCAAAGAAGAGAACAGCTGAAGATCAGGCTTTG  
GGGTTCCAGTCAACAAAAGGAAATCCCTGCTAATGAAGCCCCGACACTACAGCCCAAAGCAGACTGCCAAGAA  
GACCGCAGTGACAGGACAGAGGACGATGGCCCCCTTGGAAACACATGGTCACTCTACCGCAGAGGAAATCATGATA  
AAACCTATGGATGAAAGTCTTCTTTCAACTGCACAAGAAAACCTCCAGTAGGAAGGAAGACAGATACTCTTGTTAT  
CAAGAGCTCATGGTCAAGTCTTTAATGCACCTGGGGAAATTTGAAAAAATGTATCTGTTTCAGACTGTAAGTGAA  
AATTTAAATGACAGTGGCATCCAGTCTTTAAAGCAGAGAGCGATGAAGCAGACGAGTGCTTTCTGATTCACTCT  
GATGATGGAAGAGACAAGATTGATGATTCTCAGCCACCCTTCTGCTCCTCTGATGACAATGAAAGTAACTCTGAA  
AGTGCAGAAAATGGCTGGGACAGTGGCTCCAACCTTCTCAGAAGAAACCAAACCACTAGAGTCCCAAAGTATGTT  
TTAACAGATCATAAAAAAGACCTATTGGAAGTTCTGAAATAAAAACTGAAGGTGACAAATTTATCCCTTGTGAG  
AACAGGTGTGATTCTGAAACAGAAAGGAAAGACCCGCAGAATGCTCTCGCAGAACCCCTGGATGGCAATGCCAG  
CCCTCATTCCCTGACGTTGAGGAGGAAGATAGCGAGAGCCTGGCAGTAATGACGGAAGAGGGTAGTGACCTGGAA  
AAGGCCAAGGGGAATTTAAGTTTGTGAGCAGGCAATTGCTCTGCAGGCTGAGCGAGGTTGTGTTTTCCATAAC  
ACCTACAAAGAGCTGGATAGGTTCTGCTGGAGCACCTAGCAGGGGAAAGGAGGCAAACCAAAGTTATCGACATG  
GGTGGAAGACAAATCTTTAACAATAAACATTACCAAGGCCTGAAAAGAGGGGAGACCAAGTGCCCGATCCCTGGA  
TGTGATGGCACGGGACACGTGACAGGGCTCTACCCGCACCACCGCAGCCTTTCGGGGTGCCCCCACAAAGTGCGG  
GTTCCCTGGAATTTCTTGCCATGCATGAAAATGTGCTCAAGTGTCCCACGCCGGGATGCACAGGAAGGGGTCAT  
GTGAACAGCAACCGCAACACCCACAGGAGTCTTTCTGTTGTCCAATTGCTGCAGCTGAAAAATTGGCAATGTCC  
CAGGATAAAAAATCAGCTTGATTCTCCCCAACTGGGCAGTGTCTGACCAGGCCACAGGACAAGTTTGGTGAAG  
CAAATTGAATTCAATTTCCCGTCACAAGCCATCACCTCTCCAGAGCCACAGTGTCAAAAGAACAAGAGAAGTTT  
GGAAAAGTACCATTTGATTATGCCAGTTTTGATGCCCAAGTTTTCGGTAAACGCCCTCTCATACAAACAGTGCAA  
GGACGAAAAACACCACCATTTCTGAATCAAAGCATTTTCCAAATCCAGTGAAATTTCTAATCGACTGCCTAGT  
GCAGGCGCCACACCCAGAGCCCTGGCCGTGCCAGCTCTTATAGCTACGGTCAATGTAGTGAAGACACCCACATA  
GCAGCAGCTGCTGCCATCCTGAACCTTTCCACCCGCTGCAGGGAAGCCACAGACATCCTCTCCAACAAGCCACAG  
AGTCTGCATGCCAAGGGAGCCGAAATAGAAGTGGATGAAAATGGCACATTGGACTTAAGCATGAAAAAAATCGA  
ATCCTGGACAAGTCTGCACCCCTAAGTTCTCTAACAATCTTATTCCTCAACTCCTTCTCTCCCATTCAAAACA  
AGCAGCATTTCTGGTCAATGCAGCATTCTATCAGGCTCTTGTGACCAAGAGGGCTGGGACACTCCTATCAACTAT  
AGCAAACTCACGGGAAGACAGAGGAGGAGAAAGAGAAAGACCCAGTGAGCTCTCTAGAAAATTTAGAGGAAAAA  
AAGTTTCTTGAGAGGCTCTATACCAAGCCCTAAACCAAGCTTCATGCAAGAGATCTCAAAAAGGAACTAATC  
ACCTGTCCAACACCAGGATGTGATGGAAGTGGCCACGTGACAGGAACTATGCATCTCATCGCAGTGTCTCTGGA  
TGTCTTTTAGCAGATAAGACTCTAAATCCCTCATGGCTGCCAACTCTCAGGAGCTTAAGTGTCCAACCCAGGC  
TGCGATGGCTCGGGGCACGTGACTGGAACTATGCTTCCACAGAAGCTTGTCCGGATGCCCTCGTGCAAGGAAA  
GGTGGTGTCAAATGACCCCTACCAAGGAAGAAAAAGAACCCCTGAACTGAAATGTCTGTGATAGGGTGTGAT  
GGCCAAGGTACATATCAGGTAAATACACATCACACCGCACAGCTTCTGGCTGTCTCTGGCTGCCAAGAGACAG  
AAGGAGAATCCTCTCAATGGAGCCTCCCTCTCTCTGGAAAAGTGAACAAACAAGAGCTACCACATTGTCCCTTGCCA  
GGCTGCAATGGGCTGGGCCATGTAAATAATGTTTTTGTACCCACCGAAGCTTATCTGGATGTCTCTCAATGCA  
CAAGTTATCAAAAAGGGCAAGGTTTTCTGAAGAACTCATGACCATCAAGCTCAAAGCAACTGGGGGAATAGAGAGT  
GATGAAGAAATTAGGCATTTGGATGAAGAAATAAAGGAACTGAATGAATCCAACCTTAAAATTGAAGCAGATATG  
ATGAAACTTCAGACCCAGATCACATCTATGGAGAGCAACTTAAAGACGATAGAGGAGGAGAACAACTCATAGAA

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**FIGURE 1140B**

CAGAACAAATGAAAGTCTGCTGAAAAGAGCTGGCAGGTCTAAGCCAAGCTCTCATTTCAGCCTTGCTGACATCCAG  
CTTCCACAGATGGGACCTATCAGTGAGCAGAAATTTTGAAGCATATGTAAATACACTCACAGATATGTACAGCAAT  
CTGGAACGGGACTATTCCCCGGAATGCAAAGCTCTACTGGAAAGTATCAAACAGGCAGTGAAGGGTATCCATGTG  
**TAGG**ATCACAGCGCTGCCGGGCAACAGAAAGTTACCAACAGCAGTAAACTCCAGATGGATCTGTTAGAGGTTTCATG  
TACTGCTAAGGCGTGGAGGTTGCCGTACTGCATTTACAATTTGCAACATTGCACTAATTTTATTTTCCCCAGCTG  
ATATAAAAAGGAAAGAAAAACTATGATAGACTTCTTGGATTAAAGCAATGCAGTCAATTATTAGATCTTATTTA  
TTTTCATATGTTTTCTTTTATTTCTTCATTGTACTCTTCTTTTGTAAAGTATATGTAAAAATAATGTGACATTT  
TTATAATTTATTTATTACTAATCAAAGAGTTTTTTATCTTTTAACTGCATTTTGAAGTCTGCCGTATTTTTACAA  
GTGTGTTTTATTAATTTATTTTCCAATAGGATTTAAATAGAAATGCTATTCTCAAGTCATCTTTCTTGCTGGGTTT  
TAATGAGGAAACAGGAAAGGGTGAAGGAAATCCTTGTCTAAGGACTGCACTATAGTTGAGTTTGATTTTTATTGC  
ACACTTCTTCCCCACCTTTCAGTATTTTTGTATTTATAAATGAATTTGCGGTAAGGTGAGCTGCACGGAAGGA  
ATAAGAAGACAAATGGCGCCCACTAGTGGGGAATCCGCACTCACAAAAGCACAGGATGCTGGAAAACAGCCTGCT  
CAGAATTTGTTAGCAATAATTAATATAGCAATCAGCAAAGTATTCGACTTGGCTGGACGGTTTTCTGTTAATATG  
AATTATTTATTTGAAATGTTTTAAAGAAACATAAGCCTTTTTAGTGATGCAGATTTGTCTGTTTGTTTTTCAAGT  
CATATCAGATCGTTGGCAACTCGTATCCCAAGATGAAAAATAAGACTTGGTGTGACCAGCCAGGCTTTCCTGCCA  
TATGTTGGTACAATATACAAGTGACAATATTGGTGTAGATTTGTACTTAGCAAATACAAACACATCCAAATGAAA  
AATTTTGTAGATACCATATCCCCTGAAATAGCATTTATCTTACTGGGTTGACTGGAAAGGAATGGAAAATATAGT  
AACACATGAAAAATGCTACTCCAATCTGAATGATTACTTCAAACACTGGCACCTTGGGTCTCACCACCATAGG  
AAACAAGACAACATTCAATTTGATAGAAATCTTGCCACAAAACCTTCAAATGCTACAAAATATACACACACACTCA  
CACACACAGGCATACTCACACACAGACACACACACACACACACAGACTCATCCACACTTCAAATTGAGCCC  
ACAATCTTGAATTTCTGAACGGATCAGAGTTTCATAGTTTCTATAGTAAAGGCAATGTCTATTTTCAGGGATTGTA  
AAGTAGTTAAGCATTGTTTCAAAAGTTTTTTTTATATTTATTTTTTTTAAAGGAAAAGGTATAGACAACCAGCTAAA  
CTGCCTTTTTTGGTGTGCACACACATTTCATGTGCAGACGTGCCTCTGTGTAAATGTACACATGAACCTTCATGTGG  
GCTTAATTTTCTGTGCTATAAACAAAAGTGTTTTATTTTTTTATTAACCTCATGGATATTTAGATGGAAAGTGATGG  
CATTCACAGGCTTGATGTATTCCACTGTTATTACTGTTACCTGCACAAATGAAAAACAATACTCAACAGTAATTC  
CACTCCCATGAAACTTTGGTCATTGTTATGCATTAAGTGGGGCTTATCTTTGGTTTGGAGTTCATTTGAACTCTT  
GAACCTTAGTTTGTAGTGAAGATGAACGTCTGTTCTTAGGTAGAAACGGTGTTTATTTAAAAATCAGTTTTAAAAA  
ATGAGCTACCATATGTGCTGTCTATTATAAATGGGACACCAAACAAAATTTTCTATTACAGTTGTGTACTTGCAA  
ACATTTTGTATACAGTACTTCATAGATGCATACAAATGAGCTCACTTATTACAAAGACAAACGTTTAAATTTGCT  
AAATATTTTAAACAAGTTTGTTATATAITTTATTTAATTTAAAAAGAAATCTCTTACCAACCTACATATTTATTACT  
ATAATTTGCTATGACTTCAGGTTAATTTATTTGTGTTTGCATAGTTTGTAGCAGGATGTTTTGTGAAGTATGTTTG  
TATTTATTTGCCTACTTTGTACTTGTATGTTTTGTAAATGTGCACTGAATTTGTTTTCTTTTCAACTATGTTAAT  
GATCAATACTGTAAATTTGGGTCTTTTGTAAACAAAAGGCAATGATGTATGCATTTTTTTTTAATTTGAGGTAGTT  
TGTTTGTATACTGTTTCTCCAAACACTTAATATTTCTTACATCAAAGCAACAAAATTTGTGTTTCAGTGCTGTACAT  
TTGGTGTATGGTAGGAAATAAAAATTGATAACG



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**FIGURE 1141**

MDAEAEDKTLRTRSKGTEVPMDSLIQELSVAYDCSMAKKRTAEDQALGVPVNKRKSLLMKPRHYSPKADCQEDRS  
DRTEDDGPLETHGHSTAEEIMIKPMDESLSTAQENSSRKEDRYSCYQELMVKSLMHLGKFEKNVSVQTVSENLN  
DSGIQSLKAESDEADECFLIHSDDGDRDKIDDSQPPFCSSDDNESNSESAENGWDSGSNFSEETKPPRVPKYVLT  
HKKDLLEVPEIKTEGDKFIPCENRCDSETERKDPQNALAEPLDGNAQPSFPDVEEEDSESLAVMTEEGSDLEKAK  
GNLSLLEQAIALQAERGCVFHNTYKELDRFLLEHLAGEERRQTKVIDMGGRRQIFNNKHSPRPEKRETKCPIPGCDG  
TGHVTGLYPHHRSLSGCPHKVRVPLEILAMHENVLKCPTPGCTGRGHVNSNRNTHRSLSGCPIAAA EKLAMSQDK  
NQLDSPQTGQCPDQAHRTSLVKQIEFNFP SQAITSPRATVSKEQEKFGKVPFDYASFDAQVFGKRPLIQTVQGRK  
TPFFFPESKHFPNPVKFPNRLPSAGAHTQSPGRASSYSYGQCS EDTHIAAAAAAILNLSTRCREATDILSNKPQSLH  
AKGAEIEVDENGTLDL SMKKNRILDKSAPLTSSNTSIPTPSSSPFKTSSILVNAAFYQALCDQEGWDTPINYSKT  
HGKTEEEKEKDPVSSLENLEKKFPGEASIPSPKPKLHARDLKKELITCPTPGCDGSGHVTGNYASHRSVSGCPL  
ADKTLKSLMAANSQELKCPTPGCDGSGHVTGNYASHRSLSGCP RARKGGVKMTP TKEEKEDPELKCPVIGCDGQG  
HISGKYTSHRTASGCPLAAKRQKENPLNGASLSWKLNKQELPHCPLPGCNGLGHVNNVFVTHRSLSGCPLNAQVI  
KKGKVSEELMTIKLKATGGIESDEEIRHLDEEIKELNESNLKIEADMMKLQTQITSMESNLKTIEEENKLIEQNN  
ESLLKELAGLSQALISSLADIQLPQMGP ISEQNFEAYVNTLTDMYSNLERDYSPECKALLESIKQAVKGIHV

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**FIGURE 1142**

GCACTGCCTCTGGCACCTGGGGCAGCCGCGCCCGCGGAGTTTTCCGCCCGGGCGCTGACGGCTGCTGCGCCCGCGG  
CTCCCCAGTGCCCCGAGTGCCCCGCGGGCCCCGCGAGCGGGAGTGGGACCCAGCCCCTAGGCAGAACCCAGGCGC  
CGCGCCCGGGACGCCCCGCGGAGAGAGCCACTCCCCGCCACGTCCCATTTCGCCCCCTCGCGTCCGGAGTCCCCGTG  
GCCAGATCTAACCATGAGCTACCCTGGCTATCCCCCGCCCCAGGTGGCTACCCACCAGCTGCACCAGGTGGTGG  
TCCCTGGGGAGGTGCTGCCTACCCTCCTCCGCCAGCATGCCCCCATCGGGCTGGATAACGTGGCCACCTATGC  
GGGGCAGTTCAACCAGGACTATCTCTCGGGAATGGCGGCCAACATGTCTGGGACATTTGGAGGAGCCAACATGCC  
CAACCTGTACCCTGGGGCCCCCTGGGGCTGGCTACCCACCAGTGCCCCCTGGCGGCTTTGGGCAGCCCCCTCTGC  
CCAGCAGCCTGTTTCTCCCTATGGGATGTATCCACCCCCAGGAGGAAACCCACCCCTCCAGGATGCCCTCATATCC  
GCCATACCCAGGGGGCCCCCTGTGCCGGGCCAGCCCATGCCACCCCCGGACAGCAGCCCCCAGGGGCCTACCCTGG  
GCAGCCACCAGTGACCTACCCTGGTCAGCCTCCAGTGCCACTCCCTGGGCAGCAGCAGCCAGTGCCGAGCTACCC  
AGGATACCCGGGGTCTGGGACTGTCACCCCCGCTGTGCCCCAACCCAGTTTGAAGCCGAGGCACCATCACTGA  
TGCTCCCGGCTTTGACCCCTGCGAGATGCCGAGGTCTGCGGAAGGCCATGAAAGGCTTCGGGACGGATGAGCA  
GGCCATCATTGACTGCCTGGGGAGTCGCTCCAACAAGCAGCGGCAGCAGATCCTACTTTTCCTTCAAGACGGCTTA  
CGGCAAGGATTTGATCAAAGATCTGAAATCTGAACTGTGAGGAACTTTGAGAAGACAATCTTGGCTCTGATGAA  
GACCCAGTCCTCTTTGACATTTATGAGATAAAGGAAGCCATCAAGGGGGTTGGCACTGATGAAGCCTGCCTGAT  
TGAGATCCTCGCTTTCCCGCAGCAATGAGCACATCCGAGAATTAACAGAGCCTACAAAGCAGAATTCAAAAAGAC  
CCTGGAAGAGGCCATTGAAAGCGACACATCAGGGCACTTCCAGCGGCTCCTCATCTCTCTCTCAGGGAAACCG  
TGATGAAAGCACAAACGTGGACATGTCACTCGCCCAGAGAGATGCCAGGAGCTGTATGCGGCCGGGGAGAACCG  
CCTGGGAACAGACGAGTCCAAGTTCAATGCGGTTCTGTGCTCCCGGAGCCGGGGCCACCTGGTAGCAGTTTTCAA  
TGAGTACCAGAGAATGACAGGCCGGGACATTGAGAAGAGCATCTGCCGGGAGATGTCCGGGGACCTGGAGGAGGG  
CATGCTGGCCGTGGTGAAATGTCTCAAGAATACCCAGCCTTCTTTGCGGAGAGGCTCAACAAGGCCATGAGGGG  
GGCAGGAACAAAGGACCGGACCCTGATTGCGATCATGGTGTCTCGCAGCGAGACCGACCTCCTGGACATCAGATC  
AGAGTATAAGCGGATGTACGGCAAGTCGCTGTACCACGACATCTCGGGAGATACTTCAGGGGATTACCGGAAGAT  
TCTGCTGAAGATCTGTGGTGGCAATGACTGAACAGTGACTGGTGGCTCACTTCTGCCACCTGCCGGCAACACCA  
GTGCCAGGAAAAGGCCAAAAGAATGTCTGTTTCTAACAAATCCACAAATAGCCCCGAGATTACCGTCCTAGAGC  
TTAGGCCTGTCTTCCACCCCTCCTGACCCGTATAGTGTGCCACAGGACCTGGGTGCGTCTAGAACTCTCTCAGGA  
TGCCTTTTCTACCCCATCCCTCAGCCTCTTGCTGCTAAAATAGATGTTTCATTTTTCTGACTCATGCAATCAT  
TCCCCTTTGCCTGTGGCTAAGACTTGGCTTCATTTCTGTCATGTAATTGTATATTTTTATTGGAGGCATATTTTC  
TTTTCTTACAGTCATTGCCAGACAGAGGCATACAAGTCTGTTTGTGCTGCATACACATTTCTGGTGAGGGCGACTGG  
GTGGGTGAAGCACCGTGTCTCGCTGAGGAGAGAAAGGGAGGCGTGCCTGAGAAGGTAGCCTGTGCATCTGGTGA  
GTGTGTCACGAGCTTTGTTACTGCCAACTCACTCCTTTTAGAAAAACAAAAAAAAGGGCCAGAAAGTCATT  
CCTTCCATCTTCTTGAGAAACCACGAGAACAAAGCCAGTCCCTGTCAGTGACAGGGCTTCTTGTAATTTGTG  
GTATGTGCCTTAAACCTGAATGTCTGTAGCCAAACTTGTTTCCACATTAAGAGTCAGCCAGCTCTGGAATGGTC  
TGGAATGTCA

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**FIGURE 1143**

MSYPGYPPPPGGYPFAAPGGGPWGGAAYPPPPSMPPIGLDNVATYAGQFNQDYLSGMAANMSGTFGGANMPNLYP  
GAPGAGYPPVPPGGFGQPPSAQQPVPPYGMYPPPGGNPPSRMPSYPPYPGAPVPGQPMPPPGQPPGAYPGQPPV  
TYPGQPPVPLPGQQQPVPSYPGYPGSGTVTPAVPPTQFGSRGTITDAPGFDPLRDAEVLRKAMKGFGTDEQAIID  
CLGSRSNKQRQQILLSFKTAYGKDLIKDLKSELSGNFEKTILALMKTPVLFDIYEIKEAIKGVGTDEACLIEILA  
SRNEHIRELNRAYKAEFKKTLEEAIIRSDTSGHFQRLILISLSQGNRDESTNVDMSLAQRDAQELYAAGENRLGTD  
ESKFNAVLCSRSRAHLVAVFNEYQRMTGRDIEKSICREMSGDLEEGMLAVVKCLKNTPAFFAERLNKAMRGAGTK  
DRTLIRIMVSRSETDLLDIRSEYKRMYGKSLYHDISGDTSGDYRKILLKICGGND

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**FIGURE 1144**

GCTGGTCGGAGGCTCGCAGTGCTGTCGGCGAGAAGCAGTCGGGTTTGGAGCGCTTGGGTCGCGTTGGTGCGCGGT  
GGAACGCGCCCCAGGGACCCCAGTTCCCGCGAGCAGCTCCGCGCCGCGCCTGAGAGACTAAGCTGAAACTGCTGCT  
CAGCTCCCAAGATGGTGCCACCCAAATTGCATGIGCTTTTCTGCCTCTGCGGCTGCCTGGCTGTGGTTTATCCTT  
TTGACTGGCAATACATAAATCCTGTTGCCCATATGAAATCATCAGCATGGGTCAACAAAATACAAGTACTGATGG  
CTGCTGCAAGCTTTGGCCAAACTAAAATCCCCCGGGGAAATGGGCCTTATTCCGTTGGTTGTACAGACTTAATGT  
TTGATCACACTAATAAGGGCACCTTCTTGCGTTTATATTATCCATCCCAAGATAATGATCGCCTTGACACCCTTT  
GGATCCCAAATAAAGAATATTTTTGGGGTCTTAGCAAATTTCTTGGAACACAÇTGGCTTATGGGCAACATTTTGA  
GGTTACTCTTTGGTTCAATGACAACTCCTGCAAAGTGAATTTCCCTCTGAGGCCTGGTGAAAAATATCCACTTG  
TTGTTTTTTCTCATGGTCTTGGGGCATTGAGGACACTTTATTCTGCTATTGGCATTGACCTGGCATCTCATGGGT  
TTATAGTTGCTGCTGTAGAACACAGAGATAGATCTGCATCTGCAACTTACTATTTCAAGGACCAATCTGCTGCAG  
AAATAGGGGACAAGTCTTGGCTCTACCTTAGAACCTGAAACAAGAGGAGGAGACACATATACGAAATGAGCAGG  
TACGGCAAAGAGCAAAAAGATGTTCCCAAGCTCTCAGTCTGATTCTTGACATTGATCATGGAAAGCCAGTGAAGA  
ATGCATTAGATTTAAAGTTTGATATGGAACAAGTGAAGGACTCTATTGATAGGGAAAAAATAGCAGTAATTGGAC  
ATTCTTTTGGTGGAGCAACGGTTATTCAGACTCTTAGTGAAGATCAGAGATTCAGATGTGGTATTGCCCTGGATG  
CATGGATGTTTCCACTGGGTGATGAAGTATATTCCAGAATTCCTCAGCCCCCTTTTTTTATCAACTCTGAATATT  
TCCAATATCCTGCTAATATCATAAAAATGAAAAATGCTACTCACCTGATAAAGAAAGAAAGATGATTACAATCA  
GGGGTTCAGTCCACCAGAATTTTGCTGACTTCACTTTTGCAACTGGCAAAATAATTGGACACATGCTCAAATTAA  
AGGGAGACATAGATTCAAATGTAGCTATTGATCTTAGCAACAAAGCTTCATTAGCATTCTTACAAAAGCATTTAG  
GACTTCATAAAGATTTTGATCAGTGGGACTGCTTGATTGAAGGAGATGATGAGAATCTTATTCCAGGGACCAACA  
TTAACACAACCAATCAACACATCATGTTACAGAAGTCTTCAGGAATAGAGAAATACAATTAGGATTAAAATAGGT  
TTTTT

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**FIGURE 1145**

MVPEKLVHVFCLCGCLAVVYPFDWQYINPVAHMKSSAWVNKIQVLMAAASFQTKIPRGNGPYSVGCTDLMFDHT  
NKGTFRLRYPSQDNDRLDTLWIPNKEYFWGLSKFLGTHWLMGNILRLLFGSMTPANWNSPLRPGEKYPLVVS  
HGLGAFRTLYSAIGIDLASHGFIVAAVEHRDRSASATYYFKDQSAAEIGDKSWLYLRTLKQEEETHIRNEQVRQR  
AKECSQALSLILDIDHGKPVKNALDLKFDMEQLKDSIDREKIAVIGHSFSGGATVIQTLSEDQRFRCGIALDAWMF  
PLGDEVYSRIPQPLFFINSEYFQYPANIIKMKKCYSPDKERKMITIRGSVHQNFADFTFATGKII GHMLKLKGD I  
DSNVAIDL SNKASLAF LQKHLGLHKDFDQWDC LIEGDDENLIPGTNINTTNQHIMLQNSSGIEKYN

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**FIGURE 1146**

GAATTTCGGCACGAGGGAGTTTGACCAGAGATGCAAGGGGTGAAGGAGCGCTTCCTACCGTTAGGGAACCTCTGGGG  
ACAGAGCGCCCCGGCCGCTGATGGCCGAGGCAGGGTGCGACCCAGGACCCAGGACGGCGTCGGGAACCATACCA  
TGGCCCCGATCCCCAAGACCCTAAAGTTCGTCGTCGTCATCGTCGCGGTCTCTGCTGCCAGTCCTAGCTTACTCTG  
CCACCAGTCCCCGGCAGGAGGAAGTTCCCCAGCAGACAGTGGCCCCACAGCAACAGAGGCACAGCTTCAAGGGGG  
AGGAGTGTCCAGCAGGATCTCATAGATCAGAACATACTGGAGCCTGTAAACCCGTGCACAGAGGGTGTGGATTACA  
CCAACGCTTCCAACAATGAACCTTCTTGCTTCCCATGTACAGTTTGTAAATCAGATCAAAAACATAAAAGTTCTT  
GCACCATGACCAGAGACACAGTGTGTCAAGTGTAAAGAAGGCACCTTCCGGAATGAAAACCTCCCAGAGATGTGCC  
GGAAGTGTAGCAGGTGCCCTAGTGGGGAAGTCCAAGTCAGTAATTGTACGTCTCTGGGATGATATCCAGTGTGTTG  
AAGAATTTGGTGCCAATGCCACTGTGGAAACCCAGCTGCTGAAGAGACAATGAACACCAGCCCCGGGGACTCCTG  
CCCCAGCTGCTGAAGAGACAATGAACACCAGCCCAGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCA  
GCCCCGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCCGGGGACTCCTGCCCCAGCTGCTGAAG  
AGACAATGACCACCAGCCCCGGGGACTCCTGCCTCTTCTCATTACCTCTCATGCACCATCGTAGGGATCATAGTTC  
TAATTGTGCTTCTGATTGTGTTTGTGTTGAAAGACTTCACTGTGGAAGAAATTCCTTCCTTACCTGAAAGGTTTCA  
GTAGGCGCTGGCTGAGGGCGGGGGCGCTGGACACTCTCTGCCCTGCCTCCCTCTGCTGTGTTCCACAGACAGA  
AACGCCTGCCCCTGCCCCAAGTCCTGGTGTCTCCAGCCTGGCTCTATCTTCCTCCTTGTGATCGTCCCATCCCCA  
CATCCCGTGCACCCCCCAGGACCCTGGTCTCATCAGTCCCTCTCCTGGAGCTGGGGGTCCACACATCTCCAGCC  
AAGTCCAAGAGGGCAGGGCCAGTTCTTCCATCTTCAGGCCAGCCAGGCAGGGGGCAGTCGGCTCCTCAACTGG  
GTGACAAGGGTGAGGATGAGAAGTGATCACGGGATTTATTACGCTTGCTCAGAGCAGAAAAAAAAAAAAAAAAAA  
AAAGATCTTTAATTA

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**FIGURE 1147**

MQGVKERFLPLGNSGDRAPRPPDGRGRVRPRTQDGVGNHTMARIPKTLKFVVVIVAVLLPVLAYSATTARQEEVP  
QQTIVAPQQQRHSFKGEECPAGSHRSEHTGACNPCTEGVDYTNASNNEPSCFPCTVCKSDQKHKSSCTMTRDITVCQ  
CKEGTFRNENSPEMCRKCSRCPSGEVQVSNCTSWDDIQCVEEFGANATVETPAAEETMNTSPGTPAPAAEETMNT  
SPGTPAPAAEETMTTSPGTPAPAAEETMTTSPGTPAPAAEETMTTSPGTPASSHYLSCTIVGIIIVLIVLLIVFV

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**FIGURE 1148A**

CTTTCCACAACCACAGAGGGAGTTAGGGATCAAACCTAACCTAGAACTATTTTCCTGACAGAATCTTTGCCTT  
GCATGTTTCAGGCCCACCTGGCTCCTTTCACCTTTCTTACACAGGTGACATTCCCAGAACCTGGAGGCCAGGCTA  
TGACACAGAGTCAATCAATAACCAGGGAGATCTGTGATATAGCCCAGTAGGTGGGGCCTTGCTGCCATCTGCCAT  
ATGACCCTTCCAGTCCCAGGCTTCTGAAGAGACGTGGTAAGTGCGGTGCAGTTTTCAACTGACCTCTGGACGCAG  
AACTTCAGCCATGAAGGTAACAGGCATCTTTCTTCTCAGTGCCTTGGCCCTGTTGAGTCTATCTGGTAAGTGTTG  
CATATTTTTTCAAATTTAAATAAAACTGTTTTGACCTGTTGCTTTGTGAAGCACATTATCTTCTAGACTTTTGATG  
TAGTCTAGTCTTCGAGAGATGTTTTGGACCTAATGAGATGAAATAAAATCAACAGGTAAGAATTATTTTTTAAGA  
GGAATTTTTAACCTACTATAAGGAAAACAATTCTACTAGTAAGAAATTTCCAGAAATAAAATGGTTTTCTCTAT  
TGATGTGGCTGACCCCTTGTGGGATATGGTAGAGAAAAAGGGTAAAAATATTTTAACTTTAAGTATACTTCTC  
ATTCTGTAAATGTGTAAGGCCAAATTACAAATTTTAAATTCTCATGGGATTGCATAAAATAGATAAATGGCTTCC  
AGTTATTCAGTATAAAAAGGCATAATTTGACTGATTAAAAATTTATTTTTTATTGTATAGTTTTCAGTGTACTTG  
AATCATGTATAGTTTGTGAGATTTATCCCTGAATAGCTAATATATGTGATATAAAGGGAATTTTTTATTTTCAAT  
TCCTGGTATTTCTTATTAGTATCTGGAAATACAAAAATTGCATTTTGTGATTTACATTACACATTTTGAATGTT  
TTGAAAGAAAATATTCTGCTTGAATAGATGGTGCACATATACCTCCAACCTGCATCTTGACAATGTTGACAGACAA  
CTCTGAACCCGCAGAGCCAAGATCAGTTTCCTTTTTATCACTGGAAATGGTTAACATTTTCAACTTCACCTCTCA  
TGTAAGTGAAGGATCCTGTGGAGAGCCAAATCAGCACTTTGCTAAGAAGAGGAAGAATATTGTTTGTTTTATTGTC  
TGAATATTTATGGCAACAGTCAGTGTTCCTTTCCCTCCTCATGCATGTTAATTAATACAAAATAGATGCCTGT  
GATGAGCACCTGCTCTTCAGTTTTTAGACTCACTAGATTCTAAAAGCCAGTGGGCCCCCAACAACATCAAGTTC  
TGACTATCCCGGGGGAATTTCTCCAAGCTCATAGATGCCTCACTAATTTTCATTACATTTAGATACAAAGAACTA  
CCTCTTTGCTCAGATCACCTCAAAGATTGATGATATTAATAATTAATTTTCAGGAATGTTTCCTTATTTGATTGCT  
ATCATATTAGTTCCCTTTCCCTTCCATGAACCTATCCACAGTTATCATTTCCCTATATGTTGTGACGAAAACCTCT  
GCTATTTTCTGGGGGAATAGAGATTAGCTATTTTGACTACCTGTAAATTCACAAATGTGAGTTAGACCCATAGT  
CCATATGATGCAATTGTTGGAAATAGCTCTTTGGGAACTGATAGTGAGTTGGCAAAGAAGCTCTATTTTTTCAAC  
AATACTTACAAAAGGGAATTTAAATGIAATTGAAAAAGCTAACTTTGCATCAGAAGACCTGGTTACTGCTTATGA  
TAACTGTTTTCACAGCTAGTTATAAAAACTCTCCATACTTTTCATCTGTAACTGAGATAAAAAATTATACTTCACTA  
ATTGTGAGATTAAAGATCTAGTAAGTGGTTTTGAGAATGTTTGTGAGTATTCAAAGATAATTTGCTCAGTGCCT  
GATTCATTTCCAGCAGTAAGTGCATAATTTCTGTTTTCAAGGAAATAGATCAACTTCCTAAAACATCAAATCGAG  
ATACTTTGGTCATAATCAAAGTTTTACTCAAACCTTTTTAAGGTTTTGCCAAGGAAGGGGTACAGGAAAATCAGTC  
AGATACTTTTGAAGATTAGAGAAATCAGAAAGGGTGGGGAATGAAAGAGCCTAGTAAAGAAGTCACAGTCTGCA  
ATGAAAGCAGAGAATTCTGATGAAGAATAGATCTGACTTCTTTTCATTAGGACCCAACCTACCATATCTGATTTAT  
TTCTAGGTAACACTGGAGCTGACTCCCTGGGAAGAGAGGTAAAGAGATATTTGTAATTTCTTATTTCTCAGACTG  
GAACAGTTTGATCCAACAAAAATGCAGCCTTGCTGTACCTTTTCAGTTTAGCCTGAAGTTAAGAGGAGTATGAAT  
GCTAGGGAGGGTTAACGTGAGAAATGCAAATGGTAGTAGTATGTTCCAACCCACAGGCGTATATTGAAGGACAATT  
TCACTGATGTATAAGCAAGTTCCATATAGTCTTACAGTGCCTGCTGTGAAGGGGTTTTTATATAGACTAGTGATA  
GCTGTAGACAAGTATTTGGGGTGAAGCCTTCTCAACTTCACTCCAAGTAGCCCTTCCTCCTTACAGCCAGTTTG  
ACCATGTTGGCATGCAGCTCTCCCAATCACCAAGGTGTGGCTCTAATTTATAATGAATGACAGAAAATAATAAAC  
TAGGTTCTCCTTCTAGAAAAATATTCTAACTCTAACCTTTTCATATTTTTTGTTTAAGAGGTAATTTTCAGTAAA  
TTTGGAGACCAGAGGAAGAAGTGCCCTGTTCTCAGTACATTTATATCTAGTCAGAGACAGCTGATAGACCAAAA  
GTTTCATGAATGAATGCAATATTACATTTGTGATAAGTGTTATGAAAAAGTTCTGCTGCCGTTAGGAACTTAGCCT  
AGTTAGAAAAATCAGGGAGGGTGCTCCGAAGTAACTGAGGGGTATTTTGAGCCAAAAAATGAGTGTTAG  
TAAAACAAAACCTGGTGGGGAGATGTAGTAGAATAAAGTACTTAAGAGCTAAAGCTCAGGAACTCTGACTAGGTTT  
GAATTCTGAATTTAGGAATTCCTTAGCTGGGTGGCCTTGCTAATTTTATTGCTTTGTGCCTCATTATCTTCACC  
TGAAGAAGAATATAATACTTAGTTACAGGATAGTTAGGAGGTTTAAACAGAATAATATATAAAAAGCACTAGAA  
CAATGTCTAGGACAATGACAATCATTTGATGATTATAAACTCTTACTGGAGTAGAATGCAAAGACTTCCAACACC  
CGACAATGCCTAGTGCTTTAAGTGCCTAATAGAAGACCAGTGTTGTGGACTACAGTGTACAAGGAAGAACGTG  
CCCCAAGATGTGGCCAACCTGAGAGATGCCAGCACCCGCAGTAATTGCAAACCTTGAACATTATCTCACCCATCCA  
TGTAATCTCACACAACACTATGAGATAGGTGGGAAATGGTAATATCATCACTGTTTTGCAGATGAACTGACTG  
AGTTTCAGAAGGGCCATAGGACTTACTAATGTACACAGCTTAGAAATAGCAGAGGCATGACTTAAACAAGGTT



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**FIGURE 1148B**

TTCTGTCTCCAGATAGTAGGTTATTTCTCTTACAACACACAGTATCATTCTCCCAATCACAGTTATTCCCCAGAG  
AAATAAAACCATTTCAGAGATTTTGCTATGAACTCAAGAATGGAGAATAATGGGAAATGATTCTGTTTAATTCCA  
TTTTTAGGCCAAATGTTACAATGAACTTAATGGATGCACCAAGATATATGACCCTGTCTGTGGGACTGATGGAAA  
TACTTATCCCAATGAATGCGTGTTATGTTTTGAAAATCGGTGAGTACAACTTGAGTTTCTTTTAACTATATAT  
TTTAAGTTAGTTATCTTCAAGTGTACTGATAATATGAATCTCACCCCGAGAAAAGCAAACCTATTTACTTTTTCCA  
AAAACAGTTATCTCTTTCTTATTCTCCCTTTTATATATTTAGCATTAAATATTATTTTTTGAAGTCACCTTGAT  
GATAAAAGCCTATATTTTTTACAGCAAATAGTCGATAGCTTGGATTTTTATAAAGTACACACAAAATACCTTTA  
ATTAAAAAATTATTAGTGGTTGCAATGATTGTGTTTTTAAAGCCCTCAGTTATGCAAATATAAATTGTATAGA  
TTATATAACCAAAAATATATTTTTACTTATGGATATGAAGCCAGTTTCAGTAAAGCTTCATTTCCCTCAGTGACCA  
TAAGTGGTGATGTGATACAGAGAAATAGATTCAACACAGATTTCCCTATCTCACTCAGCAACTGAAACCTTAGCAT  
GTCTCAAGCATCATGCTAATATTCCCTGTCTTACTTGTGCTTATGACTAAGAAAACATCATGAGCATGTATAGGA  
TGGCTTCTTATAACTTGGGGCAAATGCCAGAAGATGAGGTGTAAATAAAGTGCAACAGGAGTGAAGCAGAGATAC  
ATATTTTTTATTAAAGGGGCCAAGAAAGGATCCATGAAAAGAATAGAATGCCCAACCGGGTGCAGTGGCTCACT  
CCTGAATCCCAGCACTTTGGGAGGCCGATGCAGGTGGATCACCTGAGACCGCTGGCCAACATGGTGAAACCCCA  
TGGTGGCGGGCGCTATAATACCAGCTACTCAGGAGGCTGAGGCAGAAGAATCGCTTCAATCTGGGAGGCAGAGG  
TTGCAGTGAGCTGAGATTGTGCCACTGCCTCCAACCTGGGTGACAAGAGTGAGACTCCATCTTAAAAAAGGA  
AAAAAAGAATAGAATGCCATTTAAATAGAGTTCTGAATTTTGGCAATATCAAAAGAGCATGCCAGGTAAATA  
AAGGTGTGAATGAACAAAGCAAATAAAAGGGATTCCACGAGTGACTTTAGTTTTCTGAGATTGACTTGATATT  
AAAGACTTTGACTCAGGCTCAAATGACTGTGTAAATTTCCATTATATTCTACTGCATAAATTCCTTTTCTGTAA  
TGCAACCTTCTTCTTGGGCTGTTTTAAACCATTTTGAAAATTCTCAGAGTTTAGCAAGTATTGTGGAATAGG  
ACCTCTGGATGAGAGGTCTAATATCCTGAAGTTTGAACCCAAAACATTAGGTATTCTACTTTGTAATAAATCTG  
TTTCATAATTAAGACTTGTAAGAAGAAATTTGAAGCCACCTGTTAGTTTTCTCATGACCCATGTTCTTGACATTA  
AGCTCAAACATCATATTTCCATCCAATGGGAGGAGAAAGCAAGAGAACAACAGCTTTGAGACTTGGGAAATTTCC  
AGTGCCGCTCAACATTTACAGTGAAACATTAGAAAAATATTAGTAGAGGGCTGGAACACCCTATCTGCTTAGCCT  
CTGAAACCTCCGAGTTTCTGCTTATTCTTTCTATTTGTTCAAACTATGTAAATATGGGAGGCACATTTGTATGC  
TAGAAAACATGACCTCTCTTCCCTATAITTTCTCAGATAAGAAAATTTAGGTCTAGAGACAAAATGTTGCTTTCTCA  
AATACAACATATTTCCCTAATGTATGACATTGCCTTTTTTCACTGTTGATTAAAAGTCCCAAACCTTATTACCTAGTA  
ACTAAAGCCAGACGCTGACCTAGTTTGAGACAAGTAGATAATACCAAACAAGGGCTTGCAAATCAGTCTTTTTTG  
GTGATTATGTGCTTGGCAAATATATTCAATAAACACTTTTTCTATTCTTCTACGTCTTCATAGGGAATCTGTAC  
CGGCAAATTTCTTTCCATAAACCTGCATCTCCAATAGAACCTTCTATAATGATGGAAATGTTCTATGTTTATGCT  
GTCTAATACATAGCCACTAGCCACAAAACAGTAGCCTTAATGTGGCTAACACTAACTTAAATGTGGCTAGTAAAA  
CTGATCAGCTGAATATTTAATATTATCTAACTAATTTACATTTACATAGCTATATGTGGATAGTGAATATATGA  
AACTAGAGTGAACAGCATAGCAACTCTTGTTTATTCTGTTTAGGTGTGTGTGCTTATGTATGCTAACTGATTGG  
AAATCAGTATTAATGAGCAGTTAATGATTGTGGGACAAGAAAGCATTAAAAATCTTAAAGAGTTTGGCTGGGCA  
TGGTGGCTCATGCCTGTAATCCCAGCACTTTGGAAGTCCCAGGCAGGTGGATCACTTTTGTTAGGAGTTTGAGAC  
CAGCCTGGCCAACATGGTAAAACCCGCTCTCTACTAAAAATACAAATATTAGCCAGGCATGGTGGCATTACCTG  
TAATCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATCACTTGAACCCGGGAGGTGGAGGCTGCAGTGAGCCAAGG  
TCACACCACTGCACTCCAGCCTGGGCAACAGAGTGAGACTCTGTCTTAAAAAAGAAAAAAGAAAAAAGAAA  
AGAAAAAAGAAAAAAGTATATGGAAGTCAGATGTCTTCAGTAATAGAGAAGTAGAAGAATTTTTGTAA  
GCCCCGTACATTCAAAGAAAAAATGGTTAGAAAAATTAAAGACCTGGAAACAGTCTTCTAGGGAACAATTATAAAA  
TTTAGAGATATTTAGTTTAGGGAAGAGAAAAGTATTTGGTAATGGTAGTGTGGGGCGAACAGAGAGGTTTTATC  
TGGAGGGGAGGATGTTTAGAACTGGCAGGAATCATGTGGAATAAATATGTGATTTACTTTTGTGAGACCTCACAG  
ATACGAATCCCCAGAGCTCTAAGATGAAAGGTCAATCAATTAGAAGGTCCAACAATAGCTCAGGCATCAGCTGAG  
ATGGAAACCTGGTGGCGAAGGCAGAGGCATCAGGAGCAAAAGATGCAACAATAGTTTTGAGTTTAATTTAGGGG  
TTCCTGTACACCCACGAGATCTGTAAAACTGTAAAGGACAGATATTTTCCCTTCTGTTGTATCCTTAGTGA  
TTCAACAGTAATCAATAAATATTTGATGAATTAATGACTAAGTGAATGTATAAATGAATGAAAGACAGAGAAAAA  
ATTATAAATCTCAAACCTCTCAACTTTAAATGAAGCTGTTATTTTTCCCTTCTGTTTCTCCCATAGTCACTTT  
TCATCAGTGAAGTTTAAGCTGATATATTTTTTTAATCTCTACTGCAGGAAACGCCAGACTTCTATCCTCATTCA

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**FIGURE 1148C**

AAAATCTGGGCCTTGCTGAGAACCAAGGTTTTGAAATCCCATCAGGTCACCGCGAGGCCTGACTGGCCTTATTGT  
TGAATAAATGTATCTGAATATCCCCTGTTGTTCCATTGCTTTTTCTCAAAGGTATGTTTGATTATACCAGGG  
TCAGGGGACTTTGGTAAGAC

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**FIGURE 1149**

AGCAAAATCAAGCAGTTGGTTAGCGAAGGGATTTCGGTGCAGATGGATGGACCGTCTGGGCTGCGGAGTCCACGGG  
CCTGAAACGCGGTTCGCTCCTGACCCGTCTCCGCAACCCTCGTCCCACCAGGCCGCGGTCCCCGGAGCAGGCCGG  
CGGGTGGCAGGAAGACACCAGGCTGCAGGGGGCTGGAGAAGCAACACCCCTCTCCCTCCCCGCCAGAGAACTGGA  
GCGCGGGGACCTCGGTTGCGGATGCTGGCGGCGAGCCGGGTTGCTAGGCGACATCGAGAGAGGAAGAGGAGAAAG  
TCTTCATGGGGTGTCTAGAGCATCTTAAATGTCCCTCTC**ATG**CAGGGACATTTCCCTGCTGAACGAAGAGAAGGCA  
GACCTCGGCGAGGGACCCGTGGTCAGCAGCAGCTTCTGGTGAGCCCCCGCTTCCTCCGAGCCTGGCACCCCCCTC  
CCGTCTCAGCCAGGATGCCAACGAGGCGCTGGGCCCCGGGCACCCAGTGTATCACCAAATGCGAGCACACCCGCC  
CCAAGCCAGGGGAGCTGGCCTTCCGCAAGGGCGACGTGGTCACCATCCTGGAGGCCTGCGAGAACAAGAGCTGGT  
ACCGCGTCAAGCACCAACACAGTGGACAGGAGGGGCTGCTGGCAGCTGGGGCGCTGCGGGAGCGGGAGGCCCTCT  
CCGCAGACCCCAAGCTCAGCCTCATGCCGTGGTTCCACGGGAAGATCTCGGGCCAGGAGGCTGTCCAGCAGCTGC  
AGCCTCCCGAGGATGGGCTGTTCCCTGGTGCGGGAGTCCGCGCGCCACCCCGGCGACTACGTCTGTGCGTGAGCT  
TTGGCCGCGACGTATCCACTACCGGTGCTGCACCGCGACGGCCACCTCACAATCGATGAGGCCGTGTTCTTCT  
GCAACCTCATGGACATGGTGGAGCATTACAGCAAGGACAAGGGCGCTATCTGCACCAAGCTGGTGAGACCAAAGC  
GGAAACACGGGACCAAGTCGGCCGAGGAGGAGCTGGCCAGGGCGGGCTGGTTACTGAACCTGCAGCATTGTGACAT  
TGGGAGCACAGATCGGAGAGGGAGAGTTTGGAGCTGTCTGTCAGGGTGAGTACCTGGGGCAAAGGTGGCCGTGA  
AGAATATCAAGTGTGATGTGACAGCCCAGGCCTTCCCTGGACGAGACGGCCGTATGACGAAGATGCAACACGAGA  
ACCTGGTGCGTCTCCTGGGCGTGATCCTGCACCAGGGGCTGTACATTGTCATGGAGCACGTGAGCAAGGGCAACC  
TGGTGAACTTTCTGCGGACCCGGGTCGAGCCCTCGTGAACACCGCTCAGCTCCTGCAGTTTTCTCTGCACGTGG  
CCGAGGGCATGGAGTACCTGGAGAGCAAGAAGCTTGTGCACCGGACCTGGCCGCCCGCAACATCCTGGTCTCAG  
AGGACCTGGTGGCCAAGGTCAGCGACTTTGGCCTGGCCAAAGCCGAGCGGAAGGGGCTAGACTCAAGCCGGCTGC  
CCGTCAAGTGGACGGCGCCCGAGGCTCTCAAACACGGGAAGTTCACCAGCAAGTCGGATGTCTGGAGTTTTGGGG  
TGCTGCTCTGGGAGGTCTTCTCATATGGACGGGCTCCGTACCCTAAAATGTCACTGAAAGAGGTGTGCGAGGCCG  
TGGAGAAGGGGTACCGCATGGAACCCCCGAGGGCTGTCCAGGCCCGTGCACGTCTCATGAGCAGCTGCTGGG  
AGGCAGAGCCCGCCCGCCGGCCACCCTTCCGCAAACTGGCCGAGAAGCTGGCCCGGGAGCTACGCAGTGCAGGTG  
CCCCAGCCTCCGTCTCAGGGCAGGACGCCGACGGCTCCACCTCGCCCCGAAGCCAGGAGCCCT**TGA**CCCCACCCGG  
TGGGGCCCTTGGCCCCAGAGGACCGAGAGAGTGGAGAGTGGCGCTGGGGGCACTGACCAGGCCCAAGGAGGGTC  
CAGGCGGGCAAGTCATCCTCCTGGTGCCACAGCAGGGGCTGGCCACGTAGGGGGCTCTGGGCGGCCCGTGGAC  
ACCCAGACCTGCGAAGGATGATCGCCCGATAAAGACGGATTCTAAGGACTCTAAAAAAAAAAAAAAAAAAAAA  
AAAA

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**FIGURE 1150**

MQGHFPAERREGRPRRGTRGQQQLLVSPRFLRAWHPPVVSARMPTRRWAPGTQCITKCEHTRPKPGELAFRKGDV  
VTILEACENKSWYRVKHHTSGQEGLLAAGALREREALSADPKLSLMPWFHGKISGQEAVQQLOPPEDGLFLVRES  
ARHPGDYVLCVSFGRDVIHYRVLHRDGHILTIDEAVFFCNLMDMVEHYSKDKGAICTKLVRPKRKHGTSAAEEELA  
RAGWLLNLQHLLTGAQIGEGEFGAVLQGEYLGQKVAVKNIKCDVTAQAFLDETAVMTKMQHENLVRLLGVLHQG  
LYIVMEHVSKGNLVNFLRTRGRALVNTAQLLQFSLHVAEGMEYLESKKLVHRDLAARNILVSEDLVAKVSDFGLA  
KAERKGLDSSRLPVKWTAPEALKHGKFTSKSDVWSFGVLLWEVFSYGRAPYPKMSLKEVSEAVEKGYRMEPPEGC  
PGPVHVLMSSCWEAEFARRPPFRKLAEKLAELRSAGAPASVSGQDADGSTSPRSQEP

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**FIGURE 1151**

GAGCACCGCACACTCACTTCACCCTGGTTCAACACCCCCACGAGGTTGACCCCGTCATTATGTTAGAGATTATGC  
ATTTTCCACATAGGGAAACTGAGGCTCAGGGGTGTTAAGTGA CTACCCAAGGTCACACGGCTAGGAAGTTGCTG  
CACGCTCCTATGCTCCATTTCTCTGGGAGCCTATCAACCCAGATAAAGCGGGACCTCCTCTCTGGTAGAGGTGC  
AGGGGGCAGTACTCAACATGATCACAGAGGGAGCGCAGGCCCTCGATTGTTGCTGCCGCCGCTGCTCCTGCTGC  
TCACCCTGCCAGCCACAGGCTCAGACCCCGTGCTCTGCTTCACCCAGTATGAAGAATCCTCCGGCAAGTGCAAGG  
GCCTCCTGGGGGGTGGTGTGTCAGCGTGGAAGACTGCTGTCTCAACACTGCCTTTGCCTACCAGAAACGTAGTGGTG  
GGCTCTGTGTCAGCCTTGAGGTCCCCACGATGGTCCCTGTGGTCCACATGGGCCCCCTGTTCCGGTGACGTGCTCTG  
AGGGCTCCAGCTGCGGTACCGGCGCTGTGTGGGCTGGAATGGGCAGTGCTCTGGAAAGGTGGCACCTGGGACCC  
TGGAGTGGCAGCTCCAGGCCTGTGAGGACCAGCAGTGCTGTCTGAGATGGGCGGCTGGTCTGGCTGGGGGCCCT  
GGGAGCCTTGCTCTGTGTCACCTGCTCCAAAGGGACCCGGACCCGAGGCGAGCCTGTAATCACCTGCTCCCAAGT  
GTGGGGGCCACTGCCCAGGACAGGCACAGGAATCAGAGGCCTGTGACACCCAGCAGGTCTGCCCCACACACGGGG  
CCTGGGCCACCTGGGGCCCCCTGGACCCCTGCTCAGCCTCCTGCCACGGTGGACCCACGAACCTAAGGAGACAC  
GAAGCCGCAAGTGTTCTGCACCTGAGCCCTCCCAGAAACCTCCTGGGAAGCCCTGCCCGGGGCTAGCCTACGAGC  
AGCGGAGGTGCACCGGCCTGCCACCCTGCCAGTGGCTGGGGGCTGGGGGCCCTGGGGCCCTGTGAGCCCCTGCC  
CTGTGACCTGTGGCCTGGGCCAGACCATGGAACAACGGACGTGCAATCACCTGTGCCCCAGCATGGGGGCCCT  
TCTGTGCTGGCGATGCCACCCGGACCCACATCTGCAACACAGCTGTGCCCTGCCCTGTGGATGGGGAGTGGGACT  
CGTGGGGGGAGTGGAGCCCCTGTATCCGACGGAACATGAAGTCCATCAGCTGTCAAGAAATCCCGGGCCAGCAGT  
CACGCGGGAGGACCTGCAGGGGGCCGCAAGTTTGACGGACATCGATGTGCCGGGCAACAGCAGGATATCCGGCACT  
GCTACAGCATCCAGCACTGCCCCCTTGAAAGGATCATGGTCAGAGTGGAGTACCTGGGGGCTGTGCATGCCCCCT  
GTGGACCTAATCCTACCCGTGCCCGCCAGCGCCTCTGCACACCCTTGCTCCCCAAGTACCCGCCCACCGTTTCCA  
TGGTCTGAAGGTGAGGGCGAGAAGAAGCTGACCTTCTGGGGGAGACCGCTGCCACGGTGTGAGGAGCTACAAGGGC  
AGAAGCTGGTGGTGGAGGAGAAACGACCATGTCTACACGTGCCTGCTTGCAAAGACCCTGAGGAAGAGGAACTCT  
AACACTTCTCTCCTCCACTCTGAGCCCCCTGACCTTCCAAACCTCAATAAA

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**FIGURE 1152**

MITEGAQAPRLLLLPPLLLLLLTLPATGSDPVLCTQYEESGKCKGLLGGGVSVEDCCLNTAFAYQKRSGGLCQPC  
RSPRWSLWSTWAPCSVTCSEGSQLRYYRCVGWNGQCSGKVAPGTLEWQLQACEDQQCCPEMGGWSGWGPWEPCSV  
TCSKGTRTRRRACNHPAPKCGGHCPGQAQSEACDTQQVCPTHGAWATWGPWTPCSASCHGGPHEPKETRSRKCS  
APEPSQKPPGKPCPGLAYEQRRCTGLPPCPVAGGWGPWGPVSPCPVTCGLGQTMEQRTC�HPVPQHGGPFCAGDA  
TRTHICNTAVPCPVDGEWDSWGEWSPCIRRMKKSISCQEIPGQQSRGRTCRGRKFDGHRCAGQQQDIRHCYSIQH  
CPLKGSWSEWSTWGLCMPPCGPNPTRARQRLCTPLLPKYPPPTVSMVEGQGEKNVTFWGRPLPRCEELQGQKLVVE  
EKRPCLHVPACKDPEEEEL

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**FIGURE 1153**

TTCCTTTCAAATACACACCCCAACCCGCCCGGCATACACAGAAATGGGGACTGCGAGCAGAAGCAACATCGCTC  
GCCATCTGCAAACCAATCTCATTTCTATTTTGTGTCGGTGCTGTGGGCGCCTGTACTCTCTCTGTACACAACCGT  
GGTACCTAGAAGTGGACTACACTCATGAGGCCGTCACCATAAAGTGACCTTCTCCGCAACCGGATGCCCTTCTG  
AGCAACCAACATGCCTGTGGTTTCGCTACGGTGCTCACCAGCCTGAGAACCTGTGCTTGGACGGGTGCAAAAGTG  
AGGCAGACAAGTTCACAGTGAGGGAGGCCCTCAAAGAAAACCAAGTTTCCCTCACTGTAAACAGAGTGAAGTCAA  
ATGACAGTGCAATTTACATCTGTGGAATAGCATTCCCCAGTGTCGCGGAAGCGAGAGCTAAACAGACAGGAGGAG  
GGACCACACTGGTGGTAAGAGAAATTAAGCTGCTCAGCAAGGAACTGCGGAGCTTCCTGACAGCTCTTGTATCAC  
TGCTCTCTGTCTATGTGACCGGTGTGTGCGTGGCCTTCATACTCCTCTCCAAATCAAAATCCAACCCCTCTAAGAA  
AGAAAGAAATAAAAGAAGACTCACAAAAGAAGAAGAGTGCTCGGCGTATTTTTTCAGGAAATTGCTCAAGAACTAT  
ACCATAAGAGACATGTGGAAACAAATCAGCAATCTGAGAAAGATAACAACACTTATGAAAACAGAAGAGTACTTT  
CCAACCTATGAAAGGCCATAGAAACGTTTTTAATTTTCAATGAAGTCACTGAAAATCCAACCTCCAGGAGCTATGGCA  
GTGTTAATGAACATATATCATCAGGTCTTAAAAAATAAAGGTAACTGAAAAGACAACCTGGCTACAAAGAA  
GGATGTCAGAATGTAAGGAACTATAACTAATAGTCATTACCAAAATACTAAAACCCAACAAATGCAACTGAAA  
AATACCTTCCAAATTTGCCAAGAAAAAAATTCTATTYYAACT

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**FIGURE 1154**

MGTASRSNIARHLQTNLILFCVGAVGACTLSVTQPWYLEVDYTHEAVTIKCTFSATGCPSEQPTCLWFRYGAHQ  
ENLCLDGCKSEADKFTVREALKENQVSLTVNRVTSNDSAIYICGIAFPSVPEARAKQTGGGTTLVVREIKLLSKE  
LRSFLTALVSLLSVYVTGVCVAFILLSKSKSNPLRKKEIKEDSQKKKSARRIFQEIAQELYHKRHVETNQQSEKD  
NNTYENRRVLSNYERP



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**FIGURE 1155**

GTTAGAGAACGTCGCGGAGGAGGTAAGCGTCGCTTGGCGCCTGGCCGCCGCGGGCAGGATACACCGTGGGCCTGA  
GGCGCGAGCCCGGCGGCGTGC GGCCCTCTCTCCGCGCGGAGCCGAGCCGGAACGCGGCAGTCTCTCCCTGCCAG  
GCTCTTCATCCAAGGTTTTCTGTGGATCCCTTCTGAAGTTCTATCTGAAAATTGCGCTTAAGTGAATTTTCTGTTA  
GAAGAACTTG GTTGCTACTTTCTTGTCAAGATGATTGCAACACCTTTGAAACATTCAAGAATTTACTTACCTCCA  
GAGGCATCTTCTCAAAGGAGAAATCTACCCATGGATGCAATCTTTTTTGACAGCATTCCTTCAGGCACACTTACT  
CCTGTAAAAGATTTGGTGAAATATCAGAACTCCTCCTTAAAATTGAATGACCATAAAAAAGAATCAGTTCCTAAAA  
ATGACAACTTTTAACAATAAAAAATATATTTCAATCAACTATGCTAACAGAGGCTACTACCTCTAACAGTTCTCTT  
GATATCAGTGCTATAAAGCCCAACAAGGATGGATTAAAAAATAAAGCAAACATATGAATCACCAGGAAAAATATTT  
CTAAGAATGAAAGAAAAAGTACTGCGTGACAAGCAAGAACAGCCATCAAGAAACAGTAGTTTGTGGGAACCACAG  
AAAAGTGGAATAATGAAACCTTCACTCCTAACAGAGTTGAAAAAAAATTCGAGCATACCTACCTATGTGAAG  
AAAAGGAAAAACAACAAATCATTCCAGTCAGATGACAGTTCACTAAGAGCCTCAGTCCAAGGAGTTCTCTAGAAT  
CATCAAATAATGATATTTTCTCCCGGTCAAACAAAAGATTGAGTGCCAGCAGGAAAAGAAAGCACCAGTGCACA  
ATTTAACTTACGAACTTCCAACCTCTGAACCAAGAACAGGAAAAATTTTTGGCTGTAGAAGCCCGAAACAAGACAT  
TAACTAGAGCTCAGTTGGCTAAACAAATTTTTCACTCAAAGGAGAGTATAGTTGCAACCACTAAATCCAAAAAGG  
ACACGTTTGT TTTAGAAAAGCGTTGATTCTGCTGATGAACAATTTCAAAATACTAATGCTGAGACTCTCAGTACTA  
ATTGTATTCCTATTAAAAATGGCAGCCTGTTAATGTTTTCTGATAGTGAGAGGACAACAGAAGGGACTTCGCAAC  
AGAAAGTTAAGGAAGGAAATGGAAAAACAGTGCCTGGAGAGACAGGTCTTCCAGGTTCCATGAAAGATACATGTA  
AAATTGTACTTGCAACACCAAGACTTCATATAACAATACCTCGGAGGTCAAAAAGAAATATTTCAAAGCTTTCTC  
CTCCAAGAATATTTCAAACCTGTTACAAATGGACTTAAAAAAAATCAGGTAGTTTCACTACAGGAATGGATGATTT  
AAAGCATCAATAATAATACTGCTATAIGTGTAGAAGGAAAATTGATAGACGTCCTAACATATATTGGCACAGTA  
ATGTAATTATAGAGCGGATTGAGCACAACAACTTAGGACTATATCAGGCAACGTTTATATATTTAAAGGCATGA  
TAGACCAAATTTCCATGAAAGAAGCAGGATATCCAAATTATCTCATAAGGAAATTTATGTTTGGATTTCCAGAAA  
ATTGGAAAGAGCACATTGATACTTTCTGGAACAATTAAGAGATGGGGTTTCGTGATGTTGGCCAGACTGGTCTC  
GAACTCCTGGCTACAAGTGATCCGCCTGTCTCAGCCTCCCAAAGTGTGGGATTACAGGCATGAGCCACTGTGCC  
TGGCCTGAGGGCTGGTGAAAAGAACAGGGAAGACCAAACAAAAACAGAAAACCTGGAAGATCTGTCCGTGACAT  
AAGGAAATCAATGAAAAATGATGCACGAGAAAACCAAACAGATACTGCTCAAAGAGCCACCACCACTTACGATTT  
TGATTGTGATAATTTGGAACCTGAAGAGTAATAAGCACAGTGAGTCACCAGGAGCTACAGAATTAACATGTGCCA  
CAGTAATTGCCAAAATAAACCAACATTAAGGTTCCAGATGACCAAGTAAATAATACTATTCAAATGGAGGAGG  
AGATGACTTATCTAATCAGGAATTAATTGG

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**FIGURE 1156**

MIATPLKHSRIYLPPEASSQRRNLPMDAIFFD SIPSGTLTPVKDLVKYQNSSLKLN DHKKNQFLKMTTFNNKNIF  
QSTMLTEATTSNSSLDISAIPNKDGLKNKANYESPGKIFLRMKEKVL RDKQE QPSRNSSLLEPQKSGNNETFTP  
NRVEKKNC SIPTYVKKRKT TNHSSQMTVH

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**FIGURE 1157**

TCAGCCAATTAGAGCTCCAGTTGTCACTCCTACCCACACTGGGCCTGGGGGTGAAGGGAAGTGTTTATTAGGGGT  
ACATGTGAAGCCGTCCAGAAGTGTGAGAGTCTTTGTAGCTTTGAAAGTCACCTAGGTTATTTGGGCATGCTCTCC  
TGAGTCCTCTGCTAGTTAAGCTCTCTGAAAAGAAGGTGGCAGACCCGGTTTGCTGATCGCCCCAGGGATCAGGAG  
GCTGATCCCAAAGTTGTGAGATGGAGAGTAAATACAAGGAGATACTCTTGCTAACAGGCCTGGATAACATCACTG  
ATGAGGAAGCTGGATAGGTTTAAGTTCTTTCTTTTCAGACGAGTTTAATATTGCCACAGGCAAACCTACATACTGCAA  
ACAGAATACAAGTAGCTACCTTGATGATTCAAAATGCTGGGGCGGTGTCTGCAGTGATGAAGACCATTTCGTATTT  
TTCAGAAGTTGAATTATATGCTTTTGGCAAAACGTCTTCAGGAGGAGAAGGAGAAAGTTGATAAGCAATACAAAT  
CGGTAACAAAACCAAAGCCACTAAGTCAAGCTGAAATGAGTCCTGCTGCATCTGCAGCCATCAGAAATGATGTGC  
CAAAGCAACGTGCTGCACCAAAAGTCTCTCCTCATGTTAAGCCTGAACAGAAACAGATGGTGGCCCAGCAGGAAT  
CTATCAGAGAAGGGTTTCAGAAGCGCTGTTTGCCAGTTATGGTACTGAAAGCAAAGAAGCCCTTCACGTTTGAGA  
CCCAAGAAGGCAAGCAGGAGATGTTTCATGCTACAGTGGCTACAGAAAAGGAATTCTTCTTTGTAAAAGTTTTTA  
ATACACTGCTGAAAGATAAATTCATTCCAAAGAGAATAATTATAATAGCAAGATATTATCGGCACAGTGGTTTCT  
TAGAGGTAAATAGCGCCTCACGTGTGTTAGATGCTGAATCTGACCAAAAGGTTAATGTCCCGCTGAACATTATCA  
GAAAAGCTGGTGAAACCCCGAAGATCAACACGCTTCAAACTCAGCCCCTTGGAACAATTGTGAATGGTTTGTTG  
TAGTCCAGAAGGTAACAGAAAAGAAGAAAAACATATTATTTGACCTAAGTGACAACACTGGGAAAATGGAAGTAC  
TGGGGGTTAGAAACGAGGACACAATGAAATGTAAGGAAGGAGATAAGGTTGACTTACATTCTTCACACTGTCAA  
AAAATGGAGAAAAACTACAGCTGACATCTGGAGTTCATAGCACCATAAAGGTTATTAAGGCCAAAAAAAAAACAT  
AGAGAAGTAAAAAGGACCAATTCAAGCCAACCTGGTCTAAGCAGCATTTAATTGAAGAATATGTGATACAGCCTCT  
TCAATCAGATTGTAAGTTACCTGAAAGCTGCAGTTACAGGCTCCTCTCTCCACCAAATTAGGATAGAATAATTG  
CTGGATAAACAAATTCAGAATATCAACAGATGATCACAATAAACATCTGTTTCTCATTCC

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**FIGURE 1158**

MESKYKEILLLTGLDNITDEELDRFKFFLSDEFNIATGKLHTANRIQVATLMIQNAGAVSAVMKTIRIFQKLNYM  
LLAKRLQEEKEKVDKQYKSVTKPKPLSQAEMSPAASAAIRNDVAKQRAAPKVSPHVKPEQKQMVAAQQESIREGFQ  
KRCLPVMVLKAKKPFTFETQEGKQEMFHATVATEKEFFVVKVFNTLLKDKFIPKRIIIARYYRHSGFLEVNSAS  
RVLDAESDQKVNPLNIIRKAGETPKINTLQTQPLGTIVNGLFVVQKVTEKKKNILFDLSDNTGKMEVLGVRNED  
TMKCKEGDKVRLTFFTL SKNGEKLQLTSGVHSTIKVIKAKKKT

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**FIGURE 1159**

GAAAAGGTGGACAAGTCCTATTTTCAAGAGAAG**ATG**ACTTTTAAACAGTTTTGAAGGATCTAAAACCTTGTGTACCT  
GCAGACATCAATAAGGAAGAAGAATTTGTAGAAGAGTTTAATAGATTAAAAACTTTTGCTAATTTTCCAAGTGGT  
AGTCCTGTTTTAGCATCAACACTGGCAGCAGCAGGGTTTTCTTTATACTGGTGAAGGAGATACCGTGCGGTGCTTT  
AGTTGTCATGCAGCTGTAGATAGATGGCAATATGGAGACTCAGCAGTTGGAAGACACAGGAAAGTATCCCCAAAT  
TGCAGATTTATCAACGGCTTTTATCTTGAAAATAGTGCCACGCAGTCTACAAATTCTGGTATCCAGAATGGTCAG  
TACAAAGTTGAAAACCTATCTGGGAAGCAGAGATCATTTTTGCCTTAGACAGGCCATCTGAGACACATGCAGACTAT  
CTTTTGAGAACTGGGCAGGTTGTAGATATATCAGACACCATATACCCGAGGAACCCTGCCATGTATTGTGAAGAA  
GCTAGATTAAAGTCCTTTCAGAACTGGCCAGACTATGCTCACCTAACCCCAAGAGAGTTAGCAAGTGCTGGACTC  
TACTACACAGGTATTGGTGACCAAGTGCAGTGCTTTTGTGTGGTGGAAAACCTGAAAAATTGGGAACCTTGTGAT  
CGTGCTGGTTCAGAACACAGGCGACACTTTTCTAATTGCTTCTTTGTTTTGGGCCGGAATCTTAATATTTCGAAGT  
GAATCTGATGCTGTGAGTTCTGATAGGAATTTCCCAAATTCACAAATCTTCCAAGAAATCCATCCATGGCAGAT  
TATGAAGCACGGATCTTTACTTTTGGGACATGGATATACTCAGTTAACAAGGAGCAGCTTGCAAGAGCTGGATTT  
TATGCTTTAGGTGAAGGTGATAAAGTAAAGTGCTTTCACTGTGGAGGAGGGCTAACTGATTGGAAGCCAGTGAA  
GACCCTTGGGAACAACATGCTAAATGGTATCCAGGGTGCAAATATCTGTTAGAACAGAAGGGACAAGAATATATA  
AACAATATTCAATTTAACTCATTCACTTGAGGAGTGTCTGGTAAGAACTACTGAGAAAACACCATCACTAACTAGA  
AGAATTGATGATACCATCTTCCAAAATCCTATGGTACAAGAAGCTATACGAATGGGGTTCAAGTTTCAAGGACATT  
AAGAAAATAATGGAGGAAAAAATTCAGATATCTGGGAGCAACTATAAATCACTTGAGGTTCTGGTTGCAGATCTA  
GTGAATGCTCAGAAAGACAGTATGCAAGATGAGTCAAGTCAGACTTCATTACAGAAAGAGATTAGTACTGAAGAG  
CAGCTAAGGCGCCTGCAAGAGGAGAAGCTTTGCAAAATCTGTATGGATAGAAATATTGCTATCGTTTTTGTTCCT  
TGTGGACATCTAGTCACTTGTAACAATGTGCTGAAGCAGTTGACAAGTGTCCTCATGTGCTACACAGTCATTACT  
TTCAAGCAAAAAATTTTTATGTCT**TAAT**CTAACTCTATAGTAGGCATGTTATGTTGTTCTTATTACCCTGATTGA  
ATGTGTGATGTGAAGTGAAGTAACTAAGTAATCAGGATTGAATTCCATTAGCATTGTGCTACCAAGTAGGAAAAAAAT  
GTACATGGCAGTGTTTTAGTTGGCAATATAATCTTTGAATTTCTTGATTTTTCAGGGTATTAGCTGTATTATCCA  
TTTTTTTTTACTGTTATTTAATTGAAACCATAGACTAAGAATAAGAAGCATCATACTATAACTGAACACAATGTGT  
ATTATAGTATACTGATTTAATTTCTAAGTGTAAGTGAATTAATCATCTGGATTTTTTATTCTTTTCAGATAGGC  
TTAACAAATGGAGCTTTCTGTATATAAATGTGGAGATTAGAGTTAATCTCCCAATCACATAATTTGTTTTGTGT  
GAAAAAGGAATAAATTGTTCCATGCTGGTGGAAAGATAGAGATTGTTTTTAGAGGTTGGTTGTTGTGTTTTAGGA  
TTCTGTCCATTTTCTGTAAAGGGATAAACACGGACGTGTGCGAAATATGTTTGTAAGTGATTTGCCATTGTTG  
AAAGCGTATTTAATGATAGAATACTATCGAGCCAACATGTACTGACATGGAAAGATGTCAGAGATATGTTAAGTG  
TAAATGCAAGTGGCGGGACACTATGTATAGTCTGAGCCAGATCAAAGTATGTATGTTGTTAATATGCATAGAAC  
GAGAGATTTGGAAAGATATACACCAAACCTGTTAAATGTGGTTTCTCTTCGGGGAGGGGGGGATTGGGGGAGGGGC  
CCCAGAGGGGTTTTAGAGGGGCCTTTTCACTTTCGACTTTTTTCATTTTGTCTGTTTCGGATTTTTTATAAGTAT  
GTAGACCCCGAAGGGTTTTATGGGAACTAACATCAGTAACCTAACCCCGTGACTATCCTGTGCTCTTCCTAGGG  
AGCTGTGTTGTTCCACCCACCACCCTTCCCTCTGAACAAATGCCTGAGTGCTGGGGCACTTTG

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**FIGURE 1160**

MTFNSFEGSKTCVPADINKEEEFVEEFNRLKTFANFPPSGSPVSASTLARAGFLYTGEEDTVRCFSCHAAVDRWQY  
GDSAVGRHRKVSPNCRFINGFYLENSATQSTNSGIQNGQYKVENYLGSRDHFALDRPSETHADYLLRTGQVVDIS  
DTIYPRNPAMYCEEARKSFQNWPDYAHLTPRELASAGLYYTGIGDQVQCFCCGGKLNWEPDRAWSEHRRHFP  
NCFFVLGRNLNIRSESDAVSSDRNFPNSTNLPRNPSMADYEARIFTFGTWIYSVNKEQLARAGFYALGEGDKVKC  
FHCGGGLTDWKPSSEDPWEQHAKWYPGCKYLLEQKGQEYINNIHLTHSLEECLVRTTEKTPSLTRRIDDTIFQNPM  
VQEAIMGF SFKDIKKIMEEKIQISGSNYKSLEVLVADLVNAQKDSMQDESSQTSLOKEISTEEQLRRLQEEKLC  
KICMDRNIAIVFVPCGHLVTCKQCAEAVDKCPMCYTVITFKQKIFMS

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**FIGURE 1161**

GGCGGCGGCGACGCTGCCTCCTCACCGGCGCAGGCTAGGAGGGGGCGGCCTGAGTGCCGTAGCCGAGCCGGGGGCT  
GGAGCGCGCGGTCTGACCTACGAGAAAC**ATGG**CAACCAGCGCCGTCCCCAGTGACAACCTCCCCACATACAAGCT  
GGTGGTGGTGGGGGATGGGGGTGTGGGCAAAAGTGCCCTCACCATCCAGTTTTTCCAGAAGATCTTTGTGCCTGA  
CTATGACCCCCACCATTTGAAGACTCCTACCTGAAACATACGGAGATTGACAATCAATGGGCCATCTTGGACGTTCT  
GGACACAGCTGGGCAGGAGGAATTCAGCGCCATGCGGGAGCAATACATGCGCACGGGGGATGGCTTCCTCATCGT  
CTACTCCGTCACTGACAAGGCCAGCTTTGAGCACGTGGACCGCTTCCACCAGCTTATCCTGCGCGTCAAAGACAG  
GGAGTCATTCCCGATGATCCTCGTGGCCAACAAGGTGCGATTGATGCACCTGAGGAAGATCACCAAGGGAGCAAGG  
AAAAGAAATGGCGACCAAACACAATATTCCGTACATAGAAACCAAGTGCCAAGGACCCACCTCTCAATGTCGACAA  
AGCCTTCCATGACCTCGTTAGAGTAATTAGGCAACAGATTCCGGAAAAAAGCCAGAAGAAGAAGAAAAACCAA  
ATGGCGGGGAGACCGGGCCACAGGCACCCACAACTGCAATGTGTGATCTT**GTGA**CAGGCCTGAAGGCCTCGGGC  
ACAGTGACGGTGGCCTGGCCAGCCCTCGGGACCCCTCCCCACCTAACTGCACTGAAACCATTCTAACCACAACC  
CTTGGCCCAAGGACTTGGTACAGGAAGGGAGAAGGGCAGGTGGGCAGGGAGCAAGACAGGGTCTGGCTTTTGCCA  
AGAGGAACGGGGCTTTTTCCACCTTCTTCAAAAGAGACAAGGGAAGGCCACCTGTAAAGCAGGAAGCAGCATCA  
AGTTGCCCCTTGGGCCCCCCCCATGTTGTTTGGATTTCAAACCGGGTTTCCTTCCCCCTTCTTTTCGGGTGGGTG  
TTGTTGGTTATTGGTTAACTACATATGGTT

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**FIGURE 1162**

MATSAVPSDNLPTYKLVVVGDDGGVGKSALTIQFFQKIFVPDYDPTIEDSYLKHTEIDNQWAILDVLDTAGQEEFS  
AMREQYMRTGDGFLIVYSVTDKASFVDRFHQLILRVKDRESFPMILVANKVDLMHLRKITREQGKEMATKHNI  
PYIETSAKDPPLNVDKAFHDLVRVIRQQIPEKSQKKKKKTKWRGDRATGTHKLQCVIL



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**FIGURE 1163**

GGTCGACGACGTGGCAGCCGGGATGCACTAGGCCAAAGCCAGCTGGGCTCCTGAGTCCGGTGGGTACTTGGAGAAC  
TTACTACGTCTAGCTGGAGGATTGTAAATGTACCAATCAGCATGCTGTGTCTAGCTCAAGAACTCAAGCTCCATG  
AGGAGATGTTTCATTGTCGAGAGCAGTCATGATGGCCTGCACTCCACACAATGCAACAGAGTGAAAGAGCAGGTT  
CTGCTTCTTTGGTGTAGTCCTGAAGCTTCCTAAGAACTTCACATCAGGTGGATGGATAGGAGCAACCCTGTAAAA  
CCAGCCTTAGACTATTTTTTAAACAGGCTGGTGAATTACCAGATCTCCGTCAAGTGCAGTAACCAGTTCAAGTTG  
GAAGTGTGTCTTTTGAATGCAGAAAACAAAGTCGTGGACAACCAGGCTGGGACCCAGGGCCAGCTGAAGGTGCTG  
GGTGCCAACCTCTGGTGGCCGTACCTGATGCACGAACACCCCGCCTACCTCTACTCGTGGGAGGATGGTGATTGC  
TCACACCAAAGCCTTGGACCCCTCCCAGCCTGTGACCTTTGTGACCAACTCCACCTACGCAGCAGACAAGGGGGC  
TCTGTATGTGGATGTGATCCGTGTGAACAGCTACTACTCTTGGTATCGCAACTACGGGCACCTGGAGTTGATTCA  
GCTGCAGCTGGCCGCCAGTTTGAGAAATTGGTGTAAAGACATCACAAATCCCATTATTAGAGCGCGTATGGAGTGG  
AAACGCTTGTAGGGTTTCACCAGTCTTTCCCAGGGAACCTCCGATGAAGTGTTCACAAAATGAGCGAGTGAACC  
AAGAAGAGGATGACATTAGATCCAGGAGATACAACAGAGGAGATAATCTCCAGGATGCCTGTGAAGAAAGATCCC  
TGGATCCCAGGATGATTATAGGACAAGTTGTTTCATAATCCAGCAGGCCAGAAGACTTCCAGGGAAACTCATTCAA  
GGAGGTGAAAATGATGGATGACTCCTCCAAGATGAAAATGGACCAGCCGCAGTGCTCACGCCTGTAATACCAGCA  
CTTTGGGAGGCTGAGGCAGGCGGATCACTTGAGGTCAGGAGTTTGAAACTAGCCTGGCCAACGTGGCAAAACTCC  
ATCTCTATTAAAAATACAAAAATTAGCCAGGCATAGTGGTGCATGCCTGTAGTCCCAGCTACTTGGGATGCCGAG  
GCAGGAAGAATTGCTTGAACCTGGGAGGCAGAGTCTGCAGTGAGCCGAGATCATGCCACTGCACTCCAGCCTGGG  
TGACAGAGCCACTCCGTCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1164**

MDRSNPVKPALDYFLNRLVNYQISVKCSNQFKLEVCLLNAENKVVDNQAGTQGQLKVLGANLWWPYLMHEHPAYL  
YSWEDGDGCSHQSLGPLPACDLCDQLHLRSRQGGSVCGCDPCEQLLLLVSQLRAPGVDSAAAGRPV

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**FIGURE 1165**

ACAGACAGAAACGAGGGGAAGAGAGAGAAATTGGGGACCCTGAAGAAAGGGGGCCAGCAGCAGGTAGGTGCCATCA  
GGGACAAGAACAGCACCTCCCAGGGTGGGAGACCCAGGCCTTTCTGGCAGCAGGTCTGGATGGAAAGTGGACAG  
GAGGCTCACCCGTCTGCATCCCCTGCTCCTGCCCCTGCTCGGCTACAAAAACCAAAGGGACAGCAGCTGACCACA  
CCCCGGTAGCCACTCCTGCATAAAGCTCTCCCCTCCTGTGACCAGCTGAGGACCTCAGGCTGCAGCGGAGCCATG

CCCAGATACACGGTGCACGTACGTGGGGAATGGCTGGCAGTGCCCTGCCAGGACGCGCAGCTCACTGTGGGCTGG  
CTGGGCCGGGAGGCCGTGAGGCGCTATATCAAGAATAAGCCCGACAATGGTGGCTTCACCTCCGTGGATGACCGG  
CACCTTCCTTGTGCGCCGGTGCAAGGGCCTGGGCCTGCTGGACAACGAGGACCGGCTCGAGGTGGCCCTAGAGAAC  
AACGAGTTCGTGGAAGTGGTTATAGAGGGTGTATGCCATGTCTCCTGACTTCATTCCATCTCAACCAGAAGGAGTT  
TATCTATACAGCAAGTACCGGGAGCCTGAAAAGTACATCGAGTTAGATGGAGACCGTCTGACCACGGAGGATCTG  
GTCAACTTGGGAAAGGGACGCTACAAAATAAAGCTCACCCCAACAGCTGAGAAGAGGGTGCAGAAATCCAGGGAG  
GTCATAGATAGCATCATAAAGAGAAAACAGTTGTTTACGGTATTACTACAGGTTTTGGGAAATTTGCCAGAACT  
GTAATTCCTATCAATAAGCTACAGGAGCTTCAGGTCAACTTAGTACGCTCACATTCTTCAGGTGTTGGGAAACCA  
CTAAGTCTCTGAGAGGTGTCGGATGCTCTTGGCTTTAAGGATCAATGTCTTAGCCAAAGGATACAGTGGCATTTC  
CTGGAGACCCCTCAAACAAGTCATAGAAATGTTTAATGCCTCCTGCCTGCCCTATGTCCCAGAGAAAGGAACCGTT  
GGTGCCAGTGGAGACCTTGCCCCACTCTCTCATCTTGCTCTTGGGCTAGTTGGAGAAGGGAAGATGTGGTCTCCG  
AAGAGTGGCTGGGCTGATGCTAAATACGTGCTAGAAGCCCATGGATTGAAACCAGTTATTTTAAACCAAAAGAG  
GGCCTGGCACTCATCAATGGGACGCAGATGATCACATCCCTGGGCTGTGAAGCTGTAGAGCGAGCCAGTGCTATT  
GCACGGCAGGCTGACATTGTGGCAGCCCTGACCCTTGAGGTGCTGAAGGGCACCACCAAGCCTTTGACACTGAC  
ATTCTATGCTCTTCGACCTCACCGTGGGCAAATTGAAGTTGCTTTTTCGGTTTCGGTCACTCTTGGACTCAGATCAC  
CACCCATCAGAAATAGCAGAGAGTACAGGTTCTGTGATCGCGTCCAGGATGCATACACCTTGCGCTGCTGTCCA  
CAGGTCCATGGTGTGGTGAATGATACAATAGCATTTGTGAAGAACATCATTACCACAGAACTGAACAGCGCAACA  
GATAATCCTATGGTCTTTGCCAATAGGGGAGAGACAGTTTCTGGAGGAACTTCCATGGTGAATACCCAGCCAAA  
GCCCTAGACTACTTGGCCATTGGCATCCATGAACCTTGCTGCAATCAGTGAGAGAAGAATCGAGCGGCTCTGCAAT  
CCCTCCCTCAGTGAGCTGCCTGCCTTCCTGGTGGCTGAAGGTGGTCTGAACTCTGGGTTTCATGATAGCTCACTGC  
ACGGCAGCAGCCCTTGTTTTCTGAGAACAAGGCTCTGTGCCATCCCTCGTCTGTTGACTCCCTCTCCACCAGCGCA  
GCCACGGAGGACCACGTCTCCATGGGAGGATGGGCAGCAAGGAAAGCCCTCAGGGTCATCGAGCATGTGGAGCAA  
GTGCTGGCCATCGAGCTCCTTGACGCTGCCAGGGCAGAGTTTCTACGTCCCCTGAAAACAACCACTCCGCTG  
GAGAAGGTCTATGACCTGGTGCCTCTGTTGTAAGGCCCTGGATAAAAGATCGCTTCATGGCCCCGGACATCGAG  
GCAGCCCACAGGCTGCTCCTGGAGCAGAAGGTTTGGGAAGTAGCTGCTCCATACATTGAAAAATACAGAATGGAG  
CATATTCCAGAATCAAGACCTCTTTCTCCAACAGCCTTTTCACTGCAATTTCTGCACAAGAAATCCACCAAAATC  
CCGGAGTCTGAGGACCTTTTAATGGGCTTTGTCATGAAGTAGCAGATGAGAGGGCAGTCAGTTTAGCACAAAGCAA  
TACTAGGCTGAAGGAGAGACCTGAGAACTTTCCTAGGTAGATCAATCCATTGTATCATTACAGTTCTTCTAAAGCC  
CACCAGGTATTTTCAGATTATAAACTTTTCTTCTTTCTTAACAGTTTCAACAGGCCACTCACTCTTAAGGGTG  
AGAAGAATAACCACAATTGTATGTGCCTGTTTTTACTCTTAGCATTAGATGAATTCAAATTTGGAAACAGATTG  
ATAGCAATTTTTTCTAAAAACATTAGACTTTTGTTAACCTTTTTTTTTTTTTTAAATTTGCTTCAACAAGCTCT  
CCACCAGTTGACTTTCTTTGGCTAATTTTACTTTGCATGATATGCCTTAATATGCCTTCATAAATAACCATTTTA  
AGTCATAATTTGTCCTTAAGCTGCTTTTTTCTTCTATTAATTGGATCATAGTAAAGAGTAGTCAATAGGGTCTTC  
AGCTATTAATTGTAGAGGTGATTAACCAACAAGGAGTTTCATGTGCAAAGGAGATAAGGAATGAATATAAAGA  
TTGCTATTTGGGTGGCTCTTATTAACTGTGTATTTTGTACTTATCACTACACGTATCCCCCAAATGCTTACATG  
GGAGTTTGAGGTAGTATTTTCACTTCCTTGGTGTAGTACTCTATTACATTCTTATTGTAACCTTCCTCATT  
CACAGATAAGGAATCTTTGGGGATTAACCAACCTCCTTTCTGTAATGGTAATCATTAAAAATAAG

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**FIGURE 1166**

MPRYTVHVRGEWLAVPCQDAQLTVGWLGREAVRRYIKNKPDNGGFTSVDDAHFLVRRCKGLGLLDNEDRLEVALE  
NNEFVEVVIEGDAMSPDFIPSQPEGVYLYSKYREPEKYIELDGDRLTTEDLVNLGKGRYKIKLTPTAEKRVQKSR  
EVIDSIIKEKTVVYGITTFGFGKFARTVIPINKLQELQVNLVRSHSSGVGKPLSPERCRLMLALRINVLAKGYSGI  
SLETLKQVIEMFNASCLPYVPEKGTVGASGDLAPLSHLALGLVGEKGMWSPKSGWADAKYVLEAHGLKPVILKPK  
EGLALINGTQMITSLGCEAVERASAIARQADIVAALTLEVLKGTTKAFDTDIHALRPHRGQIEVAFRFRSLDSD  
HHPSEIAESHFRFCDRVQDAYTLRCCPQVHGVVNDTIAFVKNIITTELNSATDNPMVFANRGETVSGGNFHHGEYPA  
KALDYLAIGIHELAAISERRIERLCNPSLSELPFLVAEGGLNSGFMIAHCTAAALVSENKALCHPSSVDSLSTS  
AATEDHVSMMGGWAARKALRVIEHVEQVLAIELLAACQGIEFLRPLKTTTPLEKVYDLVRSVVRPWIKDRFMAPDI  
EAAHRLILLEQKVWEVAAPYIEKYRMEHIPESRPLSPTAFSLQFLHKKSTKIPESDL

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**FIGURE 1167**

GGAGGAGGAAGCAAGCGAGGGGGCTGGTTCTGAGCTTCGCAATTCCTGTGTCGCCTTCTGGGCTCCCAGCCTGC  
CGGGTCGCATGATCCCTCCGGCCGGAGCTGGTTTTTTTGCCAGCCACCGCGAGGCCGGCTGAGTTACCGGCATCC  
CCGCAGCCACCTCCTCTCCCGACCTGTGATACAAAAGATCTTCCGGGGGCTGCACCTGCCTGCCTTTGCCTAAGG  
CGGATTTGAATCTCTTTCTCTCCCTTCAGAATCTTATCTTGGCTTTGGATCTTAGAAGAGAATCACTAACCAGAG  
ACGAGACTCAGTGAGTGAGCAGGTGTTTTGGACAATGGACTGGTTGAGCCATCCCTATTATAAAAAATGCTCTCAG  
AGCAACCGGGAGCTGGTGGTTGACTTTCTCTCCTACAAGCTTTCCCAGAAAGGATACAGCTGGAGTCAGTTTAGT  
GATGTGGAAGAGAACAGGACTGAGGCCCCAGAAGGGACTGAATCGGAGATGGAGACCCCACTGCCATCAATGGC  
AACCCATCCTGGCACCTGGCAGACAGCCCCGCGGTGAATGGAGCCACTGGCCACAGCAGCAGTTTGGATGCCCGG  
GAGGTGATCCCCATGGCAGCAGTAAAGCAAGCGCTGAGGGAGGCAGGCGACGAGTTTGAAGTGCGGTACCGGCGG  
GCATTGAGTGACCTGACATCCAGCTCCACATCACCCAGGGACAGCATATCAGAGCTTTGAACAGGATACTTTT  
GTGGAACCTCTATGGGAACAATGCAGCAGCCGAGAGCCGAAAGGGCCAGGAACGCTTCAACCGCTGGTTCTGACG  
GGCATGACTGTGGCCGGCGTGGTTCTGCTGGGCTCACTCTTCAGTCGGAAATGACCAGACACTGACCATCCACTC  
TACCCTCCCACCCCTTCTCTGCTCCACCACATCCTCCGTCCAGCCGCCATTGCCACCAGGAGAACCCTACATG  
CAGCCCATGCCACCTGCCCATCACAGGGTTGGGCCAGATCTGGTCCCTTGACGCTAGTTTTCTAGAATTTATC  
ACACTTCTGTGAGACCCCCACACCTCAGTTCCCTTGGCCTCAGAATTACAAAATTTCCACAAAATCTGTCCAAA  
GGAGGCTGGCAGGTATGGAAGGGTTTGTGGCTGGGGGCAGGAGGGCCCTACCTGATTGGTGCAACCCTTACCCCT  
TAGCCTCCCTGAAAATGTTTTCTGCCAGGGAGCTTGAAAGTTTTTCAAGACCTCTTCCCCAGAAAGGAGACTAGA  
TTGCCTTTGTTTTGATGTTTGTGGCCTCAGAATTGATCATTTTCCCCCACTCTCCCCACACTAACCTGGGTTC  
CTTTCCTTCCATCCCTACCCCTAAGAGCCATTTAGGGGCCACTTTTACTAGGGATTTCAGGCTGCTTGGGATAA  
AGATGCAAGGACCAGGACTCCCTCCTCACCTCTGGACTGGCTAGAGTCCTCACTCCAGTCCAAATGTCTCCAG  
AAGCCTCTGGCTAGAGGCCAGCCCCACCCAGGAGGGAGGGGGCTATAGCTACAGGAAGCACCCCATGCCAAAGCT  
AGGGTGGCCCTTGAGTTTACGACACCACCTAGTCCCTTCCCTCCCTGGCTCCCATGACCATACTGAGGGACCAA  
CTGGGCCCAAGACAGATGCCCCAGAGCTGTTTATGGCCTCAGCTGCCTCACTTCTTACAAGAGCAGCCTGTGGCA  
TCTTTGCCTTGGGCTGCTCCTCATGGTGGGTTTCAAGGGACTCAGCCCTGAGGTGAAAGGGAGCTATCAGGAACAG  
CTATGGGAGCCCCAGGGTCTTCCCTACCTCAGGCAGGAAGGGCAGGAAGGAGAGCCTGCTGCATGGGGTGGGGTA  
GGGCTGACTAGAAAGGGCCAGTCTGCTGGCCAGGCAGATCTGTGCCCCATGCCTGTCCAGCCTGGGCAGCCAGG  
CTGCCAAGGCCAGAGTGGCCTGGCCAGGAGCTCTTCAAGCCTCCCTCTCTTCTGCTCCACCCTTGGCCTGTCT  
CATCCCCAGGGTCCCAGCCACCCCGGGCTCTCTGCTGTACATATTTGAGACTAGTTTTTTATTCCTTGTGAAGAT  
GATATACTATTTTTGTTAAGCGTGTCTGTATTTATGTGTGAGGAGCTGCTGGCTTGAGTGCGCGTGCACGTGGA  
GAGCTGGTGGCCGAGATTGGACGGCCTGATGCTCCCTCCCTGCCCTGGTCCAGGGAAGCTGGCCGAGGGTCCT  
GGCTCCTGAGGGGCATCTGCCCCCTCCCCCAACCCCAACCCACACTTGTTCAGCTCTTTGAAATAGTCTGTGTG  
AAGGTGAAAGTGCAGTTTCACTAATAAACTGTGTTTACTCAGTGAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1168**

MSQSNRELVVDFLSYKLSQKGYSWSQFSDVEENRTEAPEGTESEMETPSAINGNPSWHLADSPAVNGATGHSSSL  
DAREVIPMAAVKQALREAGDEFELRYRRAFSDLTSQLHITPGTAYQSFEQVVNELFRDGVNWGRIVAFFSFGGAL  
CVESVDKEMQVLVSRIAAMATYLNHLEPWIQENGGWDTFVELYGNNAAESRKGQERFNRWFLTGMTVAGVVL  
LGSLSRK

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**FIGURE 1169**

CGCAAGAATGCATACAAACTCCAGGGCTGCTCTCTCTCTGGAGAGGGAGGGAGGGGATTAAAAACCTGCAGCAAC  
ATGGGGGAGGAGGCTGTTTGTCTCTCTCTCTCTGGGGAAGTAACTCGCTCAAACCTGCCTTCCTTGCTGAGCTGCT  
TCGCGTAGCTTTTGGAGGAAGTCTAGTGAAATTGGTCTTTCCATTACATCTGGATGTACTACCAGAGAGTTCTGCT  
GCTGTTGTTTTTTTTTAGCTTTTCTTTCTTTGAGTCTTTAAAGGGCAATTGTGACACTCTGCAAACATACCGATT  
TGTTGTCTGCCCACITTGGAGTCTTCAATCTGGGCAGTAACTATTTACCCTTTTTCTGCTAGCCTGTCCCCCTC  
TCTGGATTGAAGTCACCTGCTAAGACAATGGACTACCGACCAGACTCCCGGAAATCATGTTGGTAGGATCCCAGT  
CTTTTTCGCCTGGAGGGCCCAATGGGATCATTAGAAGCCAGTCCTTTGCGGGTTTCAGCGGCCTCCAGGAAAGGC  
GATCCAGGTGTAACCTCTTCAATTGAAAATTCCTCCGCTCTCAAGAAGCCTCAGGCCAAACTGAAGAAAATGCACA  
ATTTAGGCCACAAAAACAATCCCCCAAGAGCCTCAGCCTAAAAGGGTGGAAGAAGTCTACAGGGCCTTGA  
AAAATGGACTTGATGAATATCTGGAGGTTACCAGACGGAGCTGGACAAGTTGACAGCTCAGTTAAAAGATATGA  
AAAGAACTCTCGCCTGGGTGTACTGTATGACCTAGACAAGCAAATTAACAATTGAAAGATACATGAGACGCC  
TGGAGTTTCATATAAGTAAGGTAGATGAACTCTATGAAGCTTATTGTATCCAGCGACGCCTCCAGGATGGTGCCA  
GCAAAATGAAGCAAGCCTTCGCAACATCCCCTGCCAGCAAAGCTGCCCGGAGAGTCTGACAGAGATCAATCGGA  
GCTTCAAGGAGTACACAGAGAATATGTGCACCATTGAAGTGGAGCTAGAGAATCTGCTGGGAGAATTCTCCATCA  
AGATGAAAGGTCTGGCTGGCTTTGCACGCCTCTGTCTGGAGATCAATATGAAATTTTCATGAAGTATGGCCGGC  
AGCGGTGGAAGCTGAAAGGCAAAATAGAAGTAAATGGCAAGCAGAGCTGGGATGGAGAAGAAACAGTTTTTCTGC  
CCCTGATAGTTGGGTTTCATCTCCATCAAGGTCACGGAGCTCAAAGGGCTAGCAACTCACATCCTGGTAGGTAGCG  
TGACCTGTGAGACCAAAGAGCTGTTTGACGCCGACCTCAGGTAGTGGCTGTGACATCAATGACCTTGGTACCA  
TCAAACCTGAACCTGGAAATCACCTGGTATCCATTTGACGTGGAGGACATGACCGCATCCTCAGGCGCTGGGAACA  
AGGCAGCAGCCCTTCAGAGGAGAATGTCCATGTACAGCCAGGGTACCCCGGAAACGCCACCTTCAAAGACCACT  
CCTTCTTTTCAAATCTACCTGATGACATCTTTGAAAATGGAAAAGGCAGCCGAGGAGAAAATGCCACTGTGCTCA  
GCTTCAGTGACCTGCCCAACGGGGACTGCGCCCTCACCTCCCCTCAACAGGCTCCCCTTCCAACCTCAACAAATC  
CAGAAATTACCATCACCCCTGCGGAGTTTAACTCAGCAGCTTGGCCTCCAGAATGAGGGTATGGATGACACCA  
GCTCAGCATCTTCCAGGAACTCCCTGGGAGAAGGCCAAGAGCCAAAGTCACACCTGAAGGAGGAAGACCCAGAGG  
AGCCCAGAAAACCTGCCTCGGCCCATCTGAGGCTTGCCGCCGACAGTCCTCAGGTGCTGGGGCTGAGCACCTGT  
TCCTTGAGAATGATGTTGCAGAAGCACTTCTGCAAGAGTCTGAGGAGGCCTCTGAGCTCAAGCCTGTGGAACCTGG  
ACACTTCGGAAGGAAACATCACAAGCAGCTGGTCAAGAGGCTCACATCTGCAGAGGTGCCAATGGCCACAGACA  
GGCTGCTCTCTGAGGGTTCTGTTGGTGGAGAATCTGAAGGCTGCAGATCCTTTCTAGATGGAAGCTTAGAGGATG  
CTTTTAATGGGCTTTTACTTGCATTAGAACCACATAAAGAGCAGTATAAAGAGTTTCAGGATCTGAACCAAGAAG  
TCATGAATTTGGATGATATTCTAAAAAGTAGAGAAGATCCTCTAATGGATCCCAGTGTGCCATCCCTCAACCT  
CCTCAGTGATCAACTCATGGCCAATCTTGTTTCCTATTCTTCAACCTGCTGACTTCCCTCTGGATTCTTCTGCAA  
CCAGTCCCAGATATTGTGCCATTTTATCCATGGTTGTACTTCTTTTTTGATATAAAGATTTTTAAATGCATTTT  
TTAAATGCTAACAAAAAATAAAAACTTGAAACAAAAA

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**FIGURE 1170**

MLVGSQSFSPPGGPNGIIRSQSFAGFSGLQERRSRCNSFIENSSALKKPQAKLKKMHNLGHKNNNPPKEPQPKRVE  
EVYRALKNGLDEYLEVHQTELDKLTQLKDMKRNSRLGVLYDLQIKTIERYMRRLEFHISKVDELYEAYCIQR  
RLQDGASKMKQAFATSPASKAARESLTEINRSFKEYTENMCTIEVELENLLGEFSIKMKGLAGFARLCPGDQYEI  
FMKYGRQRWKLKGKIEVNGKQSWDGEETVFLPLIVGFISIKVTELKGLATHILVGSVTCETKELFAARPQVVAVD  
INDLGTIKLNLEITWYPFDVEDMTASSGAGNKAALQRRMSMYSQGTPETPTFKDHSFFSNLPDDIFENGKAAEE  
KMPLSLSFSDLPNGDCALTSHSTGSPSNSTNPEITITPAEFNLSSLASQNEGMDDTSSASSRNSLGEGQEPKSHL  
KEEDPEEPRKPPASAPSEACRRQSSGAGAEHLFLENDVAEALLQESEEASELKPVELDTSEGNITKQLVKRLTSAE  
VPMATDRLLSEGSVGGEGCRSFLDGSLEDAFNGLLLALEPHKEQYKEFQDLNQEVNMLDDILKK



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**FIGURE 1171A**

ATACGGGAGAACTAAGGCTGAAACCTCGGAGGAACAACCACTTTTGAAGTGACTTCGCGGCGTGCGTTGGGTGCG  
GACTAGGTGGCCCCGGCGGGAGTGTGCTGGAGCCTGAAGTCCACGCGCGCGGCTGAGAACCGCCGGGACCGCACG  
TGGGCGCCGCGCGCTTCCCCGCTTCCAGGTGGGCGCCGGCCGCCAGGCCACCTCACGTCCGGCCCCGGGGATG

CGCGTCCTCCTCGCCGCGCTGGGACTGCTGTTTCTGGGGGCGCTACGAGCCTTCCCACAGGATCGACCCCTTCGAG  
GACACCTGTTCATGGAAACCCAGCCACTACTATGACAAGGCTGTCAGGAGGTGCTGTTACCGCTGCCCCATGGGG  
CTGTTCCCCGACACAGCAGTGGCCACAGAGGCCTACTGACTGCAGGAAGCAGTGTGAGCCTGACTACTACCTGGAT  
GAGGCCGACCGCTGTACAGCCTGCGTGACTTGTTCTCGAGATGACCTCGTGGAGAAGACGCCGTGTGCATGGAAC  
TCCTCCCGTGTCTGCGAATGTGACCCGGCATGTTCTGTTCCACGTCTGCCGTCAACTCCTGTGCCGCTGCTTC  
TTCCATTCTGTCTGTCCGGCAGGGATGATTGTCAAGTTCCCAGGCACGGCGCAGAAGAACACGGTCTGTGAGCCG  
GCTTCCCCAGGGGTGAGCCCTGCCTGTGCCAGCCAGAGAACTGCAAGGAACCCTCCAGTGGCACCATCCCCAG  
GCCAAGCCACCCCGGTGTCCCGAGCAACCTCCAGTGCCAGCACCATGCCTGTAAGAGGGGGCACCCGCTCGCC  
CAGGAAGCTGCTTCTAAACTGACGAGGGCTCCCGACTCTCCCTCCTCTGTGGGAAGGCCTAGTTTCAGATCCAGGT  
CTGTCCCCAACACAGCCATGCCAGAGGGGTCTGGTGATTGCAGAAAGCAGTGTGAGCCCGACTACTACCTGGAC  
GAGGCCGGCGCTGCACAGCCTGCGTGAGCTGTTCTCGAGATGACCTTGTGGAGAAGACGCCATGTGCATGGAAC  
TCCTCCCGCACCTGCGAATGTGACCTGGCATGATCTGTGCCACATCAGCCACCAACTCCTGTGCCGCTGTGTC  
CCCTACCCAATCTGTGCAGCAGAGACGGTCACCAAGCCCCAGGATATGGCTGAGAAGGACACCACCTTTGAGGCG  
CCACCCCTGGGGACCCAGCCGACTGCAACCCACCCAGAGAATGGCGAGGCGCTGCCAGCACCAGCCCCACT  
CAGAGCTTGCTGGTGGACTCCAGGCCAGTAAGACGCTGCCCATCCCAACCAGCGCTCCCGTCGCTCTCTCTCTCC  
ACGGGGAAGCCCCGTTCTGGATGCAGGGCCAGTGCTCTTCTGGGTGATCCTGGTGTGGTTGTGGTGGTGGCTCC  
AGCGCCTTCTCCTGTGCCACCGAGGGCCTGCAGGAAGCGAATTGGGCAGAAGCTCCACCTGTGCTACCCGGTC  
CAGACCTCCCAGCCCAAGCTAGAGCTTGTGGATTCCAGACCCAGGAGGAGCTCAACGCAGCTGAGGAGTGGTGCG  
TCGGTGACAGAACCCTCGCGGAAGAGCGAGGGTTAATGAGCCAGCCACTGATGGAGACCTGCCACAGCGTGGGG  
GCAGCCTACCTGGAGAGCCTGCCGCTGCAGGATGCCAGCCCGGCCGGGGGCCCTCGTCCCCAGGGACCTTCTCT  
GAGCCCCGGGTGTCCACGGAGCACACCAATAACAAGATTGAGAAAATCTACATCATGAAGGCTGACACCGTGATC  
GTGGGGACCGTGAAGGCTGAGCTGCCGGAGGGCCGGGGCCTGGCGGGGCCAGCAGAGCCCGAGTTGGAGGAGGAG  
CTGGAGGCGGACCATAACCCCCACTACCCCGAGCAGGAGACAGAACCCTCTGGGCAGCTGCAGCGATGTCATG  
CTCTCAGTGGAAGAGGAAGGGAAGAAGACCCCTTGCCACAGCTGCCTCTGGAAAGTGAGGCCTGGGCTGGGCT  
GGGGCTAGGAGGGCAGCAGGGTGGCCTCTGGGAGGCCAGGATGGCACTGTTGGCACCGAGGTTGGGGGCAGAGGC  
CCATCTGGCCTGAACTGAGGCTCCAGCATCTAGTGGTGGACCGGCCGTCAGTGCAGGGGTCTGGTGGTCTCTGC  
TTGCATCCCCAACTTAGCTGTCCCTGACCCAGAGCCTAGGGGATCCGGGGCTTGACAGAAGAGACAGTCCAAG  
GGGACTGGATCCAGCAGTGATGTTGGTTGAGGCAGCAAACAGATGGCAGGATGGGCACTGCCGAGAACAGCAT  
GGTCCCAGAGCCCTGGGCATCAGACCTTAACCACAGGCCACAGCCAGCGAGGGAGAGGTCTGTGAGGCCAGCT  
CCCCGGGCCCCCTGTAACCCTACTCTCTCTCTCTCCCTGGACCTCAGAGGTGACACCCATTGGGCCCTTCCGGCATG  
CCCCAGTTACTGTAAATGTGGCCCCCAGTGGGCATGGAGCCAGTGCCCTGTGGTTGTTTCTCCAGAGTCAAAAGG  
GAAGTCGAGGGATGGGGCGTCGTGAGCTGGCACTGTCTCTGCTGCAGCGGCCACACTGTACTCTGCACTGGTGTG  
AGGGCCCCCTGCCTGGACTGTGGGACCCTCCTGGTGCTGCCCACCTTCCCTGTCTGTAGCCCCCTCGGTGGGGCC  
AGGGCCTAGGGGGCCAGGATCAAGTCACTCATCTCAGAATGTCCCCACCAATCCCGCCACAGCAGGCGCCTCGG  
GTCCAGATGTCTGCAGCCCTCAGCAGCTGCAGACCGCCCCCTACCAACCCAGAGAACCTGCTTTACTTTGCCCA  
GGGACTTCTTCCCCATGTGAACATGGGGAACCTTCGGGGCCTGCCTGGAGTCCTTGACCGCTCTCTGTGGGGCCCCA  
CCCCTCTGTCTGGGAAATGAAGAAGCATCTTCTTAGGTCTGCCCTGCTTGCAAATCCACTAGCACCGACCCC  
ACCACCTGGTTCCGGCTCTGCACGCTTTGGGGTGTGGATGTGAGAGGCACCACGGCCTCACCCAGGCATCTGCT  
TTACTCTGGACCATAGGAAACAAGACCGTTTTGGAGGTTTTCATCAGGATTTTGGGTTTTTTCACATTTACGCTAAG  
GAGTAGTGCCCTGACTTCCGGTTCGGCTGGCCAGCTGACTCCCTAGGGCCTTCAGACGTGTATGCAAATGAGTGA  
TGGATAAGGATGAGTCTTGGAGTTGCGGGCAGCCTGGAGACTCGTGGACTTACCGCCTGGAGGCAGGCCCCGGGA  
GGCTGCTGTTTACTCATCGGGCAGCCACGTGCTCTCTGGAGGAAGTGATAGTTTTCTGAAACCGCTCAGATGTTTT  
GGGGAAGTTGGAGAAGCCGTGGCCTTGCGAGAGGTGGTTACACCAGAACCTGGACATTGGCCAGAAGAAGCTTA  
AGTGGGCAGACACTGTTTGGCCAGTGTGTGCAAGGATGGAGTGGGTGTCTCTGCATACCCACAGCCCGCAGCT  
GTAAGGCACGCTGGAAGGCACACGCTGCCAGGCAGGGCAGTCTGGCGCCCATGATGGGAGGGATTGACATGTTT

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**FIGURE 1171B**

CAACAAAATAATGCACTTCCTTAAAAAAAAA

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**FIGURE 1172**

MRVLLAALGLLFLGALRAFPQDRPFEDTCHGNPSHYDDKAVRRCCYRCPMGLFPTQQCPQRPTDCRKQCEPDYYL  
DEADRCTACVTCSRDDLVEKTPCAWNSSRVCECRPGMFCSTSAVNSCARCFHSHVCPAGMIVKFPGTAQKNTVCE  
PASPGVSPACASPENCKEPSSGTIPQAKPTPVSPATSSASTMPVRGGTRLAQEAASKLTRAPDSPSSVGRPSSDP  
GLSPTQPCPEGSGDCRKQCEPDYYLDEAGRCTACVSCSRDDLVEKTPCAWNSSRTCECRPGMICATSATNSCARC  
VPYPICAAETVTKPQDMAEKDITFEAPPLGTQPD CNPTPENGEAPASTSPTQSLLVDSQASKTLPIPT SAPVALS  
STGKPVLDAGPVLFWVILVLVVVGSSAFLLCHRRACRKRIQKLHLCPVQTSQPKLELVDSRPRRSSTQLRSG  
ASVTEPVAEERGLMSQPLMETCHSVGAAYLESPLQDASPAGGPSSPRDLPEPRVSTEHTNNKIEKIYIMKADTV  
IVGTVKAELPEGRGLAGPAEPELEEELEADHTPHYPEQETEPPLGSCSDVMLSVEEEGKEDPLPTAASGK

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**FIGURE 1173**

CCAGTCTGCGGACCGTTTCGGAGCAACGTGGCGGCCCTTGCCCGCCAGCAATGCCTAGGAGCAGCCAAGCAGGGAC  
CCGTCGGAAACCCCTTCATCCAGCCTTTCTCTGGCGCATGGGAGAACCTGGGGGTCGGCGAAGGGGCAGAGGCTTGC  
AGCAGGTTGAGTCGCTCTCGCGGCCGCCACAGCATGACCAGAGCCCCGAAGCACCTGTGGCGGCAACCCCGGCGC  
CCCATCCGCATCCAACAGCGCTTCTATTTCGATCCGGACAAGTCCGCGGGCTGCCGCGAGAGGGACCTGAGCCCCG  
CGGCCGGAGCTCAGGAAGTCGCGGCTCTCCTGGCCCGTTTCTCCTGCAGGCGCTTTGACCTGGAAAATGGGCTC  
TCGTGTGGGAGGAGGGCCCTGGACCCTCAGTCCAGCCCTGGCCTGGGCGGATTATGCAGGCTCCAGTCCCGCAC  
AGCCAGCGGCGGAGTCCTTCTGTACCGCTCAGATAGCGACTATGAACTCTCGCCCAAGGCCATGTCTCGGAAC  
TCCTCTGTGGCCAGCGACCTACATGGAGAGGACATGATTGTGACGCCCTTTGCCAGGTCTTGCCAGTCTGCGG  
ACCGTTTCGGAGCAACGTGGCGGCCCTTGCCCGCCAGCAATGCCTAGGAGCAGCCAAGCAGGGACCCGTCGGAAAC  
CCTTCATCCAGCAATCAGCTCCCTCCTGCAGAGGACACGGGGCAGAAGCTGGCATTGGAGACGCTAGACGAGCTG  
GACTGGTGCCTGGATCAGTTGGAGACGCTGCAGACCCGGCACTCGGTGGGGGAGATGGCCTCCAACAAGTTCAAG  
CGGATCCTGAACCGGGAGTTGACCCACCTGTCCGAAACCAGCCGCTCCGGGAACCAGGTGTCCGAGTACATCTCC  
CGGACCTTCTGGACCAGCAGACCGAGGTGGAGCTGCCCAAGGTGACCGCTGAGGAGGCCCCACAGCCCATGTCC  
CGGATCAGTGGCCTACATGGGCTCTGCCACAGTGCCAGCCTCTCCTCAGCCACTGTCCACGCTTTGGGGTCCAG  
ACTGACCAGGAGGAGCAACTGGCCAAGGAGCTAGAAGACACCAACAAGTGGGGACTTGATGTGTTCAAGGTGGCG  
GACGTAAGTGGGAACCGGCCCTCACAGCTATCATATTTCAGCATTTTTTCAGGAGCGGGACCTGTGAAGACATTC  
CAGATCCCAGCAGACACACTGGCCACCTACCTGCTGATGCTGGAGGGTCACTACCACGCCAATGTGGCCTACCAC  
AACAGCCTACATGCCGCCGACGTGGCCAGTCCACGCATGTGCTGCTGGCTACGCCCCGCCCTCGAGGCTGTGTTT  
ACAGACTTGGAAAATCCTGGCTGCCCTCTTTGCAAGCGCCATCCACGACGTGGACCATCCTGGGGTCTCCAACCAG  
TTTTCTGATTAACACCAACTCAGACGTGGCGCTTATGTACAACGACGCCCTCGGTGCTGGAGAACCATCACCTGGCT  
GTGGGCTTCAAGCTGCTGCAGGCAGAGAAGTGCATATCTTCCAGAACCCTCAGCGCCAAGCAGCGACTGAGTCTG  
CGCAGGATGGTCATTGACATGGTGTCTGGCCACAGACATGTCCAAACACATGAACCTCCTGGCCGACCTCAAGACC  
ATGGTGGAGACCAAGAAGGTGACAAGCCTCGGTGTCTCCTCCTCCTGGACAACCTATTCCGACCGAATCCAGGTCTTG  
CAGAACCCTGGTGCATGTGCTGATCTGAGCAACCCACCAAGCCGCTGCCCTGTACCGCCAGTGGACGGACCGC  
ATCATGGCCGAGTTCTTCCAGCAGGGAGACCGCGAGCGTGAGTCGGGCCTGGACATCAGTCCCATGTGTGACAAG  
CATACGGCCTCAGTGGAGAAGTCCAGGTGGGTTTCAATTGACTACATTGCTCACCCACTGTGGGAGACTTGGGCT  
GACCTGGTCCACCCAGATGCACAGGACCTGTCTGGACACGCTGGAGGACAATCGAGAGTGGTACCAGAGCAAGATC  
CCCCGAAGTCCCTCAGACCTACCAACCCGAGCGGGACGGGCCTGACAGATTCCAGTTTGAAGTACTCTGGAG  
GAGGCAGAGGAAGAGGATGAGGAGGAAGAAGAGAGGGGGGAAGAGACAGCTTTAGCCAAAGAGGCCTTGAGTTG  
CCTGACACTGAACTCCTGTCCCCTGAAGCCGGCCCAGACCCTGGGGACTTACCCCTCGACAACCAGAGGACTTAG

GGCCAGCCCTGCGTGAAGTGCAGGGGCAATGGATGGTAAAGCCCTTTGGCTCTTGGCAGGCAGACTTTCCAGGAA  
GAGGCTCCATGTGGCTCCTGCTTCACTTTCCACCCATTTAGGGAGACAATCAAGCTCTTAGTTATAGGTGGCTC  
CCAGGGTCTAATTGGAGGCACCTGGCTGGGGTCCACTCTGACCCTAGACTTGCCTAAAAGAGCTCTCTAAGGGGC  
AGCCTCTTACGATGCCCTGGTGTCTTTCTCCTGGGCTTCTATCCCTGTGAGGAGAGGTGCTGTCTGCTGGAGCCT  
CTAGTCCACCCCTCTCCAGTGGTCACTCTTGAGTCACATCTGTCACTTAATTATTTCTTTCTTTATCAAATATTTA  
TTGCTCATCTACTTCGGGCCAGCTTTCTGCCTCTGTAGTAGCCCTGCACAAAGGGTGGGGAGTCAGGAGACCATC  
CCAAAGGCATCTCCCTGTCTTCTCTACCAAGCGGCTCTCTGCAAGAGCATGGAAATGTGAGTGGGGAAAAATTTT  
CAGCACCAAGCTTCACTCATACCCAGTTTTTGTCTGAAACTACGGTAGGGGGCAGGAAGAGGAGCAGAAAAGA  
AGGGCTGGGCAAGGCATAGTGGCTTATGCCTGTAATCCCGGTACTTTGGGAGGCTGAGGTGGGAGGACTGCTTAA  
GCTCAGGAGTTTGAGACCAGCCTGGGCAACATAGCAAGACCCCCACCATCTCTGAAAAAAAAAATTAGCCAGGCA  
TGGTGGTGTGCACCTGAGAATCCAGCTACTCAGAAGGTTGAGACAAAGGGGATCGCTTGAGCCCAGGAGTTGGA  
GGCTGAAGAGAGCTATGACTGCATCACTGCACTCCAGCCTGGGCAACACAGCAAGATCCTGTCTAAAAATAAAAA  
GAAAAGAGAAGGAAAGGAAAGAGACGGGGCTCTGAGGCCGAGCACAGTGGCCCATGCCTATAATCCAGCACTTT  
GGGAGGCTGAGGCAGGTGGATCACCTGAGGTTAGGAGTTCGAGACCAGCCTGGCCAACATGGTGAAACCCCATCT  
CTACTAAAAATACAAAATTGGCTGGGCATGGTGGCGGTGCCTGTAATCCAGCTACTGGGGAGGCTGAGGCAG  
GAGAATCACTTGAATTCAGGAGGTGGAGGTTGCAGTGAGCCGACATCATGCCACTGCACTCCAGCCTGGGGCTGA  
CAGAGCAAGACACTGTCTCAAAAAAGAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1174**

MENLGVGEGAEACSRLSRSRGRHSMTRAPKHLWRQPRRPIRIQQRFYSDPKSAGCRERDLSRPELRKSRLSWP  
VSSCRRFDLENGLSCGRRALDPQSSPGLGRIMQAPVPHSQRRSEFLYRSDSDYELSPKAMSRNSSVASDLHGEDM  
IVTPFAQVLASLRTVRSNVAALARQQCLGAAKQGPVGNPSSSNQLPPAEDTGQKLALETLDLWDCLDQLETLQT  
RHSVGEAMSNKFKRILNRELTHLSETSRSGNQVSEYISRTFLDQQTEVELPKVTAEEAPQPMSRISGLHGLCHSA  
SLSSATVPRFGVQTDQEEQLAKELEDTNKWGLDVFKVADVSGNRPLTAIIFSIFQERDLLKTFQIPADTLATYLL  
MLEGHYHANVAYHNSLHAADVAQSTHVLLATPALEAVFTDLEILAALFASAIHDVDHPGVSNQFLINTNSDVALM  
YNDASVLENHHLAVGFKLLQAENCDIFQNLQSAKQRLSLRRMVIDMVLATDMSKHMNLLADLKTMTVETKKVTSLG  
VLLLDNYSDRIQVLQNLVHCADLSNPTKPLPLYRQWTDRIAEFFQQGDRERESGLDISPMCDKHTASVEKSQVGF  
IDYIAHPLWETWADLVHPDAQDLLDTLEDNREWYQSKIPRSPSDLTNPERDGPDRFQFELTLEEAEEDDEEEEEE  
GEETALAKEALELPDTELLSPEAGPDGDLPLDNQRT

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**FIGURE 1175**

CTCTGTCTCTGCCAGCACCGAGGGCTCATCCATCCACAGAGCAGTGCAGTGGGAGGAGACGCC**ATG**ACCTCCATCC  
TCACGGTCCTGATCTGTCTCGGGCTGAGCCTGGACCCACAGGACCCACGTGCAGGCAGGGCCCCCTCCCCAAGCCCA  
CCCTCTGGGCTGAGCCAGGCTCTGTGATCACCCAAGGGAGTCTGTGACCCTCAGGTGTCAGGGGAGCCTGGAGA  
CGCAGGAGTACCATCTATATAGAGAAAAGAAAACAGCACTCTGGATTACACGGATCCCACAGGAGCTTGTGAAGA  
AGGGCCAGTTCCCCATCCTATCCATCACCTGGGAACATGCAGGGCGGTATTGCTGTATCTATGGCAGCCACACTG  
CAGGCCTCTCAGAGAGCAGTGACCCCTGGAGCTGGTGGTGACAGGAGCCTACAGCAAACCCACCCTCTCAGCTC  
TGCCCAAGCCCTGTGGTGACCTCAGGAGGGAATGTGACCATCCAGTGTGACTCACAGGTGGCATTGATGGCTTCA  
TTCTGTGTAAGGAAGGAGAAGATGAACACCCACAATGCCTGAACTCCCATTCCCATGCCCGTGGGTTCATCCCGG  
CCATCTTCTCCGTGGGCCCCGTGAGCCCAAGTCGCAGGTGGTCTGACAGGTGCTATGGTTATGACTCGCGCGCTC  
CCTATGTGTGGTCTCTACCCAGTGATCTCCTGGGGCTCCTGGTCCCAGGTGTTTCTAAGAAGCCATCACTCTCAG  
TGCAGCCGGGTCCTGTCGTGGCCCTGGGGAGAAGCTGACCTTCCAGTGTGGCTCTGATGCCGGCTACGACAGAT  
TTGTTCTGTACAAGGAGTGGGGACGTGACTTCTCCAGCGCCCTGGCCGGCAGCCCCAGGCTGGGCTCTCCCAGG  
CCAACCTCACCCCTGGGCCCTGTGAGCCGCTCCTACGGGGGCCAGTACACATGCTCCGGTGCATACAACCTCTCCT  
CCGAGTGGTTCGGCCCCCAGCGACCCCTGGACATCCTGATCACAGGACAGATCCGTGCCAGACCCTTCCTCTCCG  
TGCGGCCGGGCCCCACAGTGGCCTCAGGAGAGAACGTGACCCTGCTGTGTGTCAGTCACAGGGAGGGATGCACACTT  
TCCTTTTGACCAAGGAGGGGGCAGCTGATTCCCCGCTGCGTCTAAAATCAAAGCGCCAATCTCATAAGTACCAGG  
CTGAATTCCCCTAGATCCTGTGACCTCGGCCCACGCGGGGACCTACAGGTGCTACGGCTCACTCAGCTCCAACC  
CCTACCTGCTGACTCACCCAGTGACCCCTGGAGCTCGTGGTCTCAGGAGCAGCTGAGACCCTCAGCCCACCAC  
AAAACAAGTCCGACTCCAAGGCTGGTGAG**TGA**AGGAGATGCTTGCCGTGATGACGCTGGGCACAGAGGGTCAGGTC  
CTGTCAAGAGGAGCTGGGTGTCCTGGGTGGACATTTGAAGAATTATATTCACTTCCAACCTTGAAGAATTATTCAAC  
ACCTTTAACAATGTATATGTGAAGTACTTTATTCTTTCATATTTTAAAAATAAAAGATAATTATCCATGAA

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**FIGURE 1176**

MTSILTVLICLGLSLDPRTHVQAGPLPKPTLWAEPGSVITQGSPVTLRCQGSLETQEYHLYREKKTALWITRIPQ  
ELVKKGQFPILSITWEHAGRYCCIIYGSHTAGLSESSDPLELVVTGAYSKPTLSALPSPVVTSGGNVTIQCDSQVA  
FDGFILCKEGEDEHPQCLNSHSHARGSSRAIFSVGPVSPSRRWSYRCYGYDSRAPYVWSLPSDLLGLLVPGVSKK  
PSLSVQPGPVVAPGEKLTFCQGS DAGYDRFVLYKEWGRDFLQRPGRQPQAGLSQANFTLGPVSRSYGGQYTCGA  
YNLSSEWSAPSDPLDILITGQIRARPFLSVRPGPTVASGENVTLLCQSQGGMHTFLLTKEGAADSPLRLKSKRQS  
HKYQAEFPMSPV TSAHAGTYRCYGSLSNPYLLTHPSDPLELVVSGAAETLSPPQNKSDSKAGE

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**FIGURE 1177**

**ATG**TGGTGGAGAGTTCTCAGCTTGCTGGCATGGTTCCCTTGCAAGAGGCCTCTCTGACTAACCACACAGAAACC  
ATCACCGTGGAGGAAGGCCAGACGCTCACTCTAAAGTGTGTCACTTCTCTGAGGAAGAACTCCTCCCTCCAGTGG  
CTGACCCCCCTCAGGGTTACCATTTTTTTAAATGAGTATCCTGCTTTAAAAAATTCCAAATACCAGCTTCTTCAT  
CACTCGGCCAATCAGCTCTCCATCACTGTGCCTAACGTAACCTGCAAGATGAAGGCGTGACAAAGTGCTTACAT  
TACAGCGACTCTGTAAGCACAAAGGAAGTGAAAGTGATTGTGCTGGCAACTCCTTTCAAGCCAATCCTGGAAGCT  
TCAGTTATCAGAAAGCAAAATGGAGAAGAACATGTTGTACTCATGTGCTCCACCATGAGAAGCAAGCCCCCTCCG  
CAGATAACCTGGCTACTTGGAATAGCATGGAAGTGTCCGGTGGAAACGCTCCATGAATTTGAAACTGATGGGAAG  
AAATGTAATACTACCAGCACTCTCATAATCCACACTTATGGCAAAAATTCACGGTGGACTGCATTATCCGACAC  
AGAGGCCTGCAAGGGAGAAAACTAGTAGCACCTTCCGGTTTGAAGATTTGGTTACTGATGAAGAGACAGCTTCA  
GATGCTCTGGAGAGAACTCTCTATCCTCTCAAGACCCACAGCAGCCACCAGTACTGTCTCAGTAACGGAAGAT  
TCTAGTACATCGGAGATTGACAAGGAAGAGAAAGAACAACCACTCAAGATCCTGACTTGACCACCGAAGCAAAAT  
CCTCAGTATTTAGGACTGGCAAGAAAGAAAAGTGGCATCCTGCTGCTCACGCTGGTGTCTTCTCATTTTTTATA  
CTCTTCATCATAGTCCAGCTCTTCATCATGAAGCTGAGGAAAGCACATGTGATATGGAAGAGAGAAAACGAAGTT  
TCAGAACACACACTAGAAAGTTACAGATCAAGGTCAAATAATGAAGAAACATCATCTGAAGAGAAAAATGGCCAA  
TCTTCCACCCTATGCGTTGCATGAAGTACATCACAAGTTGTACTCAGAAGCAAAAACAAAGAGGAAGGAAAAAT  
GTACAACATTCAAAATTAGAAGAAAAGCACATCCAAGTACCAGAGAGTATTGTG**TAG**TGCTCTCTGCAATGGAAC  
ATGTGATTTTCAAGGTTGCCGCAGTGTACCTCAGTGGACCAGCCTGGGGGAAGGAGCTTAATTGCTGAGACATTA  
ATAATGACCTCTTAGTGCAATGCAAGATGGTGTCTCGGATAATGATCTGCCCCGGAGCTAGGGCAGCAACATGA  
GGACCAAAACCATGCACATAAAGCTTGTAGTTTAAAAAAGAAAAAGCAAAAAATAATTATGCCTGACACTACTTCA  
GAGCAGGAGGATTCTACGAAGCCTTGGGGATCAGGGTCAGTGTGAGCAGCTAACATCCTACCTCAAATGGAACAG  
GATTTTTTGATGCTTTGCTCTAATGGAAGTGTTTTTAAAAATTTTTTTTTCTTTTTTAATATTTTCTTCTGGTCACA  
AAATAAAGAAATTTGGGATGCAAAGTACCTAAAGATCTCTGATCCTAAGAAGTTACTTCTGGCCAGGCGCGGTGG  
CTCATGCCTGTAATCCTAGCACTTTGGGAGGCTGAGGTAGGCAGATCACTTGAGGTCAGGAGTTGGAGACCAGCC  
TGGCCAACATAGTGAAACCCCGTCTCTACTAAAAATGCAAAAATTAGCCAGGCGTAGTGGTGCACCTGTAGTC  
TCAGATACTTGGGAGGCTGAGGGTGGAGAATCGCTTGAACCTGGGAGGTGGAGATTGCAGTGAGTCAAGATCTCA  
CCACTGAACTCCAGCCTGGGCGACAGAGGGAGACTCTGTCTCAAAAAAAGAAGTTACTTCCAAGACAGACTTT  
TAACATGTAACCAGCACAAAGCAATGTCAGGGAGGAGTGATACATGACAATAAATGAGTCAGATGAGCAAGAAG  
CCCCAGAACCCATGCCCCAAGGCACAAAGAGGAGCTCAGGGTAGGCCCAAAGATTCTGAATTCCTTAGATTACTAA  
ATCACATGAGCGGACCTTGTCTGTCAGATAAGATTTTTACCTGGAAATTCATGACCAATACATGTGCAAAAGAA  
AATGATGGGTGAATTTACTGATTATTGACCTAATGGATGGCTTTTTAAATGTTTTAATAAAAAGCAGAATAGA  
TGTTTGTCTTCTAGTGGTTATACCAAGCTATACTTCTGTCTTTCACGTGTGAAAGTAACATGGGACATGCCTTT  
CTTTTCCGATCAGTTTATTTAAGCTATACAGCAAACTTTGGCATTATGTGGAGCATTCTCATTGTTGGAATCT  
GAATAAACCAATTACAAAATAAAAA



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**FIGURE 1178**

MWWRVLSLLAWFPLQEASLTNHTETITVEEGQTLTLKCVTS LRKNSSLQWLTPSGFTIFLNEY PALKNSKYQLLH  
HSANQLSITVPNVTLQDEGVYKCLHYSDSVSTKEVKVIVLATPFKPILEASVIRKQNGEEHVLMCSTMR SKPPP  
QITWLLGNSMEVSGGTLHEFETDGKKCNTTSTLIIHTYGKNSTVDCIIRHRGLQGRKLVAPFRFEDLVTDEETAS  
DALERNLSLSSQDPQOPTSTVSVTEDSSTSEIDKEEKEQTTQDPDLTTEANPQYLGLARKKSGILLTLVSFLIFI  
LFIIVQLFIMKLRKAHVIWKRENEVSEHTLESYRSRSNNEETSSEEKNGQSSHPMRCMNYITKLYSEAKTKRKEN  
VQHSKLEEKHIQVPESIV

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**FIGURE 1179**

GTTTCAGCGCCGGCGCCGGTGTGCGAGCCGCGGCAGAGTGAGGCAGGCAACCCGAGGTGCGGAGCGACCTGCGGAG  
GCTGAGCCCCGCTTTTCTCCCAGGGTTTCTTATCAGCCAGCCGCCGCTGTCCCCGGGGGAGTAGGAGGCTCCTGAC  
AGGCCGCGGCTGTCTGTGTGTCTTTCTGAGTGTCTAGAGGAACGGCCAGACCCCGCGGGCCGGAGCAGAACGCGGC  
CAGGGCAGAAAGCGGCGGCAGGAGAAGCAGGCAGGGGGCCGGAGGACGCAGACCCGAGACCCGAGGCGGAGGCGGA  
CCGCGAGCCGGCC**ATG**TCGGTGGTGGGGTTGGACGTGGGCTCGCAGAGCTGCTACATCGCGGTAGCCCGGGCCGG  
GGGCATCGAGACCATCGCCAATGAGTTCAGCGACCGGTGCACCCCGTCAGTCATATCATTTGGATCAAAAAATAG  
AACAAATCGGAGTTGCAGCCAAAAATCAGCAAATCACTCATGCAACAATACGGTGTCTAACTTCAAAAGATTTC  
TGGCCGAGCATTCAACGACCCCTTCATTCAAAAGGAGAAGGAAAACCTTGAGTTACGATTTGGTTCCATTGAAAA  
TGGTGGAGTTGGAATAAAGGTAATGTACATGGGTGAAGAACATCTATTTAGTGTGGAGCAGATAACAGCCATGTT  
GTTGACTAAGCTGAAGGAACTGCTGAAAACAGCCTCAAGAAACCAGTAACAGATTGTGTTATTTTCAGTCCCCTC  
CTTCTTTACAGATGCTGAGAGGCGATCTGTGTTAGATGCTGCACAGATTGTTGGCCTAACTGTTTAAGACTTAT  
GAATGACATGACAGCTGTTGCTTTGAATTACGGAATTTATAAGCAGGATCTCCCAAGCCTGGATGAGAAACCTCG  
GATAGTGGTTTTTGTGATATGGGACATTCAGCTTTTCAAGTGTCTGCTTGTGCTTTTAACAAGGGAAAATTGAA  
GGTACTGGGAACAGCTTTTGTATCCTTTCTTAGGAGGAAAAAACTTCGATGAAAAGTTAGTGGAACATTTCTGTGC  
AGAATTTAAACTAAGTACAAGTTGGATGCAAAATCCAAAATACGAGCACTCCTACGTCTGTATCAGGAATGTGA  
AAAAGTAAAAAGCTAATGAGCTCTAACAGCACAGACCTTCCACTGAATATCGAATGCTTTATGAATGATAAAGA  
TGTTTCCGGAAGATGAACAGGTCACAATTTGAAGAACTCTGTGCTGAACCTCTGCAAAAAGATAGAAGTACCCCT  
TTATTCACGTGTGGAACAACTCATCTCAAAGTAGAAGATGTGAGTGCAGTTGAGATTGTTGGAGGCGCTACACG  
AATTCCAGCTGTGAAGGAAAGAATTGCCAAATTTCTTTGGAAAAGATATTAGCACAACTCAATGCAGATGAAGC  
AGTAGCCAGAGGATGTGCATTACAGTGTGCAATACTTTCCCGGCATTTAAAGTTAGAGAATTTTCCGTCACAGA  
TGCAGTTCCTTTTCCAATATCTCTGATCTGGAACCATGATTGAGAAGATACTGAAGGTGTTTCATGAAGTCTTTAG  
TCGAAACCATGCTGCTCCTTTCTCCAAAGTTCTCACCTTTCTGAGAAGGGGGCCTTTTGGAGCTAGAAGCTTTCTA  
TTCTGATCCCCAAGGAGTTCCATATCCAGAAGCAAAAATAGGCCGCTTTGTAGTTTCAGAATGTTTCTGCACAGAA  
AGATGGAGAAAAATCTAGAGTAAAAGTCAAAGTGCAGTCAACACCCATGGCATTTCACCATCTCTACGGCATC  
TATGGTGGAGAAAGTCCCAACTGAGGAGAAATGAAATGTCTTCTGAAGCTGACATGGAGTGTCTGAATCAGAGACC  
ACCAGAAAACCCAGACACTGATGCAAAATGAAAAAAAAGTTGACCAGCCTCCAGAAGCTAAAAAGCCCCAAAATAAA  
GGTGGTGAATGTTGAGCTGCCTATTGAAGCCAACTTGGTCTGGCAGTTAGGGAAAGACCTTCTTAACATGTATAT  
TGAGACAGAGGGTAAGATGATAATGCAAGATAAATTGGAAAAAGAAAGGAATGATGCTAAAAATGCAGTTGAGGA  
ATATGTGTATGAGTTCAGAGACAAGCTGTGTGGACCATATGAAAAATTTATATGTGAGCAGGATCATCAAAATTT  
TTTGAGACTCCTCACAGAACTGAAGACTGGCTGTATGAAGAAGGAGAGGACCAAGCTAAACAAGCATATGTTGA  
CAAGTTGGAAGAATTAATGAAAATTGGCACTCCAGTTAAAGTTTCGGTTTCAGGAAGCTGAAGAACGGCCAAAAAT  
GTTTGAAGAACTAGGACAGAGGCTGCAGCATTATGCCAAGATAGCAGCTGACTTCAGAAATAAGGATGAGAAATA  
CAACCATATTGATGAGTCTGAAATGAAAAAAGTGGAGAAGTCTGTTAATGAAGTATGGAATGGATGAATAATGT  
CATGAATGCTCAGGCTAAAAAGAGTCTTGATCAGGATCCAGTTGTACGTGCTCAGGAAATTAACAAAAATCAA  
GGAATTGAACAACACATGTGAACCCGTTGTAACACAACCGAAACCAAAATTTGAATCACCCAACTGGAAAGAAC  
TCCAAATGGCCCAAATATTGATAAAAAGGAAGAAGATTTAGAAGACAAAAACAATTTTGGTGTGTAACCTCCACA  
TCAGAATGGTGAATGTTACCCTAATGAGAAAAATCTGTTAATATGGACTTGGACT**TAG**ATAACCTTAAATTGGCC  
TATTCCTTCAATTAATAAAAATATTTTGGCCATAGTATGTGACTCTACATAACATACTGAACTATTTATATTTTCT  
TTTTTTAAGGATATTTAGAAATTTTGTGTATTATATGGAAAAAGAAAAAAGCTTAAGTCTGTAGTCTTTATGAT  
CCTAAAAGGGAAAAATTGCCTTGGTAACTTTTCAGATTCCCTGTGGAATTGTGAATTCATACTAAGCTTTCTGTGCAG  
TCTCACCATTGTCATCACTGAGGATGAACTGACTTTTGTCTTTTGGAGAAAAAAAAGTGTACTGTTGTTCAAGA  
GGGCTGTGATTAAATCTTTAAGCATTGTTCTTCCCAAGGTAGTTTTCTTGCATTTTGTCTCCATTCAGCATG  
TGTGTGGGTGTGGATGTTTATAAACAAGACTAAGTCTGACTTCATAAGGGCTTTCTAAAACCATTTCTGTCCAAG  
AGAAAAATGACTTTTTGCTTTGATATTAAAAATTCAATGAGTAAAACAAAAGCTAGTCAAATGTGTTAGCAGCATG  
CAGAACAAAACTTTAACTTTCTCTCTCACTATACAGTATATTGTCAATGTGAAAGTGTGGAATGGAAGAAATG  
TCGATCCTGTTGTAAGTATTGTGAACACTTTTATGAGCTTTAAATAAAGTTTCATCTTATGGTGTCAATTTCT

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**FIGURE 1180**

MSVVGLDVGSQSCYIAVARAGGIETIANEFSDRCTPSVISFGSKNRTIGVAAKNQQITHANNTVSNFKRFHGRAF  
NDPFIQKEKENLSYDLVPLKNGGVGIKVMYMGEHLSVEQITAMLLTKLKETAENSLKKPVTD CVISVPSFFTD  
AERRSVLDAAQIVGLNCLRLMNDMTAVALNYGIYKQDLPSLDEKPRIVVFVDMGHSAFQVSACAFNKGKLVLT  
AFDPFLGGKNFDEKLVEHFCAEFKTKYKLDASKIRALLRLYQECEKLKKLMSSNSTDLPLNIECFMNDKDVSGK  
MNRSQFEELCAELLQKIEVPLYSLLEQTHLKVEDVSAVEIVGGATRIPAVKERIAKFFGKDISTTLNADEAVARG  
CALQCAILSPAFAKREFSVTDVFPFISLIWNHDSDETEGVHEVFSRNHAAPFSKVLTFLLRGPFELEAFYSDPQ  
GVFPYPAKIGRFVQNVSAQKDGEKSRVKVKVRVNTHGIFTISTASMVEKVPTEENEMSSEADMECLNQRPPENP  
DTDANEKKVDQPPEAKPKIKVVNVELPIEANLVWQLGKDILNMYIETEGKMIMQDKLEKERNDAKNAVEEYVYE  
FRDKLCGPYEKFICEQDHQNFLLLTETEDWLYEEGEDQAKQAYVDKLEELMKIGTPVKVRFQEAERPKMFEEL  
GQRLQHYAKIAADFRNKDEKYNHIDSEMKKVEKSVNEVMEWMNNVMNAQAKKSLDQDPVVRAQEIKTKIKELNN  
TCEPVVTQPKPKIESPKLERTPNGPNIDKKEEDLEDKNNFGAEPHQNGECPNEKNSVNMDLD

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**FIGURE 1181A**

CTTCAGATAGATTATATCTGGAGTGAAGGATCCTGCCACCTACGTATCTGGCATAGTATTCTGTGTAGTGGGATG  
AGCAGAGAACAAAAACAAAATAATCCAGTGAGAAAAGCCCGTAAATAAACCTTCAGACCAGAGATCTATTCTCCA  
GCTTATTTTAAAGCTCAACTTAAAAAGAAGAACTGTTCTCTGATTCTTTTCGCCTTCAATACACTTAATGATTTAA  
CTCCACCCTCCTTCAAAAGAAACAGCATTTCCTACTTTTATACTGTCTATATGATTGATTGTCACAGCTCATCTG  
GCCAGAAGAGCTGAGACATCCGTTCCCTTACAAGAACTCTCCCCGGGTGGAACAAGATGATTATCAAGTGTCA  
AGTCCAATCTATGACATCAATTATTATACATCGGAGCCCTGCCAAAAAATCAATGTGAAGCAAATCGCAGCCCGC  
CTCCTGCCTCCGCTCTACTCACTGGTGTTCATCTTTGGTTTTGTGGGCAACATGCTGGTCATCCTCATCCTGATA  
AACTGCAAAAGGCTGAAGAGCATGACTGACATCTACCTGCTCAACCTGGCCATCTCTGACCTGTTTTTCTTCTT  
ACTGTCCCTTCTGGGCTCACTATGCTGCCGCCAGTGGGACTTTGGAAATACAATGTGTCAACTCTTGACAGGG  
CTCTATTTTATAGGCTTCTTCTCTGGAATCTTCTTCATCATCCTCCTGACAATCGATAGGTACCTGGCTGTCGTC  
CATGCTGTGTTTGCTTTAAAGCCAGGACGGTCACCTTTGGGGTGGTGACAAGTGTGATCACTTGGGTGGTGGCT  
GTGTTTGCTCTCTCCCAGGAATCATCTTTACCAGATCTCAAAAAGAAGGTCTTCATTACACCTGCAGCTCTCAT  
TTTCCATACAGTCAGTATCAATTCTGGAAGAATTTCCAGACATTAAAGATAGTCATCTTGGGGCTGGTCTGCCG  
CTGCTTGTATGGTCATCTGCTACTCGGGAATCTTAAAACTCTGCTTCGGTGTGAAAATGAGAAGAAGAGGCAC  
AGGGCTGTGAGGCTTATCTTCACCATCATGATTGTTTATTTTCTCTTCTGGGCTCCCTACAACATTGCTCTTCTC  
CTGAACACCTTCCAGGAATTCTTTGGCCTGAATAATTGCAGTAGCTCTAACAGGTTGGACCAAGCTATGCAGGTG  
ACAGAGACTCTTGGGATGACGCACTGCTGCATCAACCCATCATCTATGCCTTTGTGCGGGAGAAAGTTCAGAAAC  
TACCTCTTAGTCTTCTTCCAAAAGCACATTGCCAAACGCTTCTGCAATGCTGTTCTATTTTCCAGCAAGAGGCT  
CCCGAGCGAGCAAGCTCAGTTTACACCCGATCCACTGGGGAGCAGGAAATATCTGTGGGCTTGTGACACGGACTC  
AAGTGGGCTGGTGACCCAGTCAGAGTTGTGCACATGGCTTAGTTTTTCATACACAGCCTGGGCTGGGGGTGGGGTG  
GGAGAGGTCTTTTTTAAAGGAAGTTACTGTTATAGAGGGTCTAAGATTTCATCCATTTATTTGGCATCTGTTTAA  
AGTAGATTAGATCTTTTAAAGCCCATCAATTATAGAAAGCCAAATCAAAATATGTTGATGAAAAATAGCAACCTTT  
TTATCTCCCTTACATGCATCAAGTTATTGACAACTCTCCCTTCACTCCGAAAGTTCCTTATGTATATTTAAA  
AGAAAGCCTCAGAGAATTGCTGATTCTTGAGTTTAGTGATCTGAACAGAAATACCAAAATATTTTCAGAAATGTA  
CAACTTTTTTACCTAGTACAAGGCAACATATAGGTTGTAAATGTGTTTAAACAGGTCTTTGTCTTGCTATGGGA  
GAAAAGACATGAATATGATTAGTAAAGAAATGACACTTTTCATGTGTGATTTCCTCCCAAGGTATGGTTAATAA  
GTTTCACTGACTTAGAACAGGCGAGAGACTTGTGGCCTGGGAGAGCTGGGGAAGCTTCTTAAATGAGAAGGAAT  
TTGAGTTGGATCATCTATTGCTGGCAAAGACAGAAGCCTCACTGCAAGCACTGCATGGGCAAGCTTGGCTGTAGA  
AGGAGACAGAGCTGGTTGGGAAGACATGGGGAGGAAGGACAAGGCTAGATCATGAAGAACCTTGACGGCATTGCT  
CCGTCTAAGTCATGAGCTGAGCAGGGAGATCCTGGTTGGTGTGTCAGAAGGTTTACTCTGTGGCCAAAGGAGGGT  
CAGGAAGGATGAGCATTTAGGGCAAGGAGACCACCAACAGCCCTCAGGTCAAGGTGAGGATGGCCTCTGCTAAGC  
TCAAGGCGTGAGGATGGGAAGGAGGGAGGTATTCGTAAAGGATGGGAAGGAGGGAGGTATTCGTGCAGCATATGAG  
GATGCAGAGTCAGCAGAACTGGGGTGGATTGTTGTTGGAAGTGAGGGTCAGAGAGGAGTCAGAGAGAATCCCTAG  
TCTTCAAGCAGATTGGAGAAACCCTTGAAAAGACATCAAGCACAGAAGGAGGAGGAGGTTTAGGTCAAGAAG  
AAGATGGATTGGTGTAAGGATGGGTCTGGTTGTCAGAGCTTGAACACAGTCTCACCCAGACTCCAGGCTGTCT  
TTCCTGAATGCTTCTGACTTCATAGATTTCTTCCCATCCCAGCTGAAATACTGAGGGGTCTCCAGGAGGAGAC  
TAGATTTATGAATACAGAGGTATGAGGTCTAGGAACATACTTCAGCTCACACATGAGATCTAGGTGAGGATTGA  
TTACCTAGTAGTCATTTTCATGGGTGTTGGGAGGATTCTATGAGGCAACCACAGGCAGCATTTAGCACATACTAC  
ACATTCAATAAGCATCAAACTCTTAGTTACTCATTGAGGATAGCACTGAGCAAAGCATTGAGCAAAGGGGTCCC  
ATATAGGTGAGGGAAGCCTGAAAACTAAGATGCTGCCTGCCAGTGCACACAAGTGATAGGTATCATTTTCTGCA  
TTTAAACCGTCAATAGGCAAAGGGGGGAAGGGACATATTCATTTGGAATAAGCTGCCTTGAGCCTTAAAACCCAC  
AAAAGTACAATTTACCAGCCTCCGTATTTTCAGACTGAATGGGGGTGGGGGGGGCGCCTTAGGTACTTATTCAGA  
TGCTTCTCCAGACAAACCAGAAGCAACAGAAAAAATCGTCTCTCCCTCCCTTTGAAATGAATATACCCCTTAGT  
GTTTGGGTATATTCATTTCAAAGGGAGAGAGAGAGGTTTTTTTCTGTTCTTTCTCATATGATTGTGCACATACTT  
GAGACTGTTTTGAATTTGGGGATGGCTAAAACCATCATAGTACAGGTAAGGTGAGGGAATAGTAAGTGGTGAGA  
ACTACTCAGGGAATGAAGGTGTCAGAATAATAAGAGGTGCTACTGACTTTCTCAGCCTCTGAATATGAACGGTGA  
GCATTGTGGCTGTGAGCAGGAAGCAACGAAGGGAAATGTCTTTCTTTTGCTCTTAAGTTGTGGAGAGTGCAACA  
GTAGCATAGGACCCTACCCTCTGGGCCAAGTCAAAGACATTCTGACATCTTAGTATTTGCATATTCTTATGTATG

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**FIGURE 1181B**

TGAAAGTTACAAATTGCTTGAAAGAAAATATGCATCTAATAAAAAACACCTTCTA

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**FIGURE 1182**

MDYQVSSPIYDINYTSEPCQKINVKQIAARLLPPLYSLVFIFGFVGNMLVILILINCKRLKSMTDIYLLNLAIS  
DLFFLLTVPFWAHYAAAQWDFGNTMCQLLTGLYFIGFFSGIFFIILLTIDRYLAVVHAVFALKARTVTFGVVTSV  
ITWVVAVFASLPGIIFTRSQKEGLHYTCSSHPYSQYQFWKNFQTLKIVILGLVLPLLVMVICYSGILKTLLRCR  
NEKKRHRAVRLIFTIMIVYFLFWAPYNIVLLLNTFQEFFGLNNCSSSNRLDQAMQVTETLGMTHCCINPIIYAFV  
GEKFRNYLLVFFQKHIAKRFCKCCSIFQQEAPERASSVYTRSTGEQEISVGL

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**FIGURE 1183**

CATT CAGAGACAGAAGGTGGATAGACAAATCTCCACCTTCAGACTGGTAGGCTCCTCCAGAAGCCATCAGACAGG  
AAGATGTGAAAATCCCCAGCACTCATCCCAGAATCACTAAGTGGCACCTGTCCTGGGCCAAAGTCCCAGGACAGA  
CCTCATTTGTTCTCTGTGGGAATACCTCCCCAGGAGGGCATCCTGGATTTCCCCCTTGCAACCCAGGTCAGAAGT  
TTCATCGTCAAGGTTGTTTTCATCTTTTTTTTCTGTCTAACAGCTCTGACTACCACCCAACCTTGAGGACACAGTG  
AAGACATCGGTGGCCACTCCAATAACAGCAGGTCACAGCTGCTCTTCTGGAGGTGTCCTACAGGTGAAAAGCCCA  
GCGACCCAGTCAGGATTTAAGTTTACCTCAAAAATCGGAAGATTTTAACATGGAGAGTGACAGCTTTGAAGATTTT  
TGGAAAGGTGAAGATCTTAGTAATTACAGTTACAGCTCTACCCTGCCCCCTTTTCTACTAGATGCCGCCCCATGT  
GAACCAGAATCCCTGGAAATCAACAAGTATTTTGTGGTCATTATCTATGCCCTGGTATTCTGCTGAGCCTGCTG  
GGAAACTCCCTCGTGATGCTGGTCATCTTATACAGCAGGGTCGGCCGCTCCGTCACTGATGTCTACCTGCTGAAC  
CTAGCCTTGGCCGACCTACTCTTTGCCCTGACCTTGCCCATCTGGGCCGCTCCAAGGTGAATGGCTGGATTTTT  
GGCACATTCTGTGCAAGGTGGTCTCACTCCTGAAGGAAGTCAACTTCTATAGTGGCATCCTGCTACTGGCCTGC  
ATCAGTGTGGACCGTTACCTGGCCATTGTCCATGCCACACGCACACTGACCCAGAAGCGCTACTTGGTCAAATTC  
ATATGTCTCAGCATCTGGGGTCTGTCTTGTCTCTGGCCCTGCCTGTCTTACTTTTCCGAAGGACCGTCTACTCA  
TCCAATGTTAGCCAGCCTGCTATGAGGACATGGGCAACAATACAGCAAACCTGGCGGATGCTGTTACGGATCCTG  
CCCCAGTCTTTGGCTTCATCGTGCCACTGCTGATCATGCTGTTCTGTCTACGGATTACCCCTGCGTACGCTGTTT  
AAGGCCCACATGGGGCAGAAGCACCGGGCCATGCGGGTCATCTTTGCTGTCTCTCATCTTCTGCTCTGCTGG  
CTGCCCTACAACCTGGTCTCTGCTGGCAGACACCCTCATGAGGACCCAGGTGATCCAGGAGACCTGTGAGCGCCGC  
AATCACATCGACCGGGCTCTGGATGCCACCGAGATTCTGGGCATCCTTCACAGCTGCCTCAACCCCCCTCATCTAC  
GCCTTCATTGGCCAGAAGTTTCGCCATGGACTCCTCAAGATTCTAGCTATACATGGCTTGATCAGCAAGGACTCC  
CTGCCCAAAGACAGCAGGCCTTCTTTGTTGGCTCTTCTTCAGGGCACACTTCCACTACTCTCTTAAGACCTCCTG  
CCTAAGTGCAGCCCGTGGGGTTCTCTCTTCTTCACAGTCACATTCCAAGCCTCATGTCCACTGGTTCTTCTT  
GGTCTCAGTGTCAATGCAGCCCCATTGTGGTCACAGGAAGTAGAGGAGGCCACGTTCTTACTAGTTTCCCTTGC  
ATGGTTTAGAAAGCTTGCCCTGGTGCCTCACCCCTTGCCATAATTACTATGTCATTTGCTGGAGCTCTGCCCATC  
CTGCCCTGAGCCCATGGCACTCTATGTTCTAAGAAGTGAAAATCTACACTCCAGTGAGACAGCTCTGCATACTC  
ATTAGGATGGCTAGTATCAAAAGAAAGAAAATCAGGCTGGCCAACGGGGTGAAACCTGTCTCTACTAAAAATACA  
AAAAAAAAAAAAAAAAATTAGCCGGGCGTGGTGGTGAGTGCTGTAATCACAGCTACTTGGGAGGCTGAGATGGGAGA  
ATCACTTGAACCCGGGAGCAGAGGTTGCAGTGAGCCGAGATTGTGCCCTGCCATCCAGCCTGAGCGACAGTGAG  
ACTCTGTCTCAGTCCATGAAGATGTAGAGGAGAACTGGAACCTCTCGAGCGTTGCTGGGGGGGATTGTAAAATGG  
TGTGACCACTGCAGAAGACAGTATGGCAGCTTTCTCTAAAACCTTCAGACATAGAATTAACACATGATCCTGCAAT  
TCCACTTATAGGAATTGACCCACAAGAAATGAAAGCAGGGACTTGAACCCATATTTGTACACCAATATTCATAGC  
AGCTTATTCACAAGACCCAAAAGGCAGAAGCAACCCAAATGTTTCATCAATGAATGAATGAATGGCTAAGCAAAAT  
GTGATATGTACCTAACGAAGTATCCTTCAGCCTGAAAGAGGAATGAAGTACTCATACTGTTACAACACGGACGA  
ACCTTGAAAACCTTTATGCTAAGTGAAATAAGCCAGACATCAACAGATAAATAGTTTATGATTCCACCTACATGAG  
GTACTGAGAGTGAACAAATTTACAGAGACAGAAAGCAGAACAGTGATTACCAGGGACTGAGGGGAGGGGAGCATG  
GGAAGTGACGGTTTAATGGGCACAGGGTTTATGTTTAGGATGTTGAAAAGTTCTGCAGATAAACAGTAGTGATA  
GTTGTACCGCAATGTGACTTAATGCCACTAAATTGACACTTAAAAATGGTTTAAATGGTCAATTTTGTATGTAT  
ATTTTATATCAATTTAAAAAAAACCTGAGCCCCAAAAGGTATTTTAAATCACCAAGGCTGATTAAACCAAGGCTA  
GAACCACCTGCCTATATTTTTTGTAAATGATTTTCATTCATATCTTTTTTTTAAATAAACCATTTTTTACTTGGGT  
GTTTAT

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**FIGURE 1184**

MEDFNMESDSFEDFWKGEDLSNYSYSSTLPPFLDDAAPCEPESLEINKYFVVIIYALVFLLSLLGNSLVMLVILY  
SRVGRSVTDVYLLNLALADLLFALTLPPIWAASKVNGWIFGTFLCKVVSLLKEVNFYSGILLACISVDRYLAIVH  
ATRTLITQKRYLVKFICLSIWGLSLLLALPVLLFRRTVYSSNVSPACYEDMGNNNTANWRMLLRILPQSFGFIVPLL  
IMLFCYGFITLRTLFKAHMGQKHRAMRVIFAVVLIFLLCWLPYNLVLLADTLMRTQVIQETCERRNHIDRAIDATE  
ILGILHSCLNPLIYAFIGQKFRHGLLKILAIHGLISKDSL PKDSRPSFVGSSSGHTSTTL



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**FIGURE 1185**

ACAAAGCAGTGCAGGCAGCCCGCCTGGCTTTCTCTCTTGGTTCAGTGTGGAGAAGG**ATGG**ATGCTTCAGAAAAGG  
GACGTCTGTTGGATAAGCTTGCAGACTTGGTGGAAACGGGACAGGGCAGTTCTTGCAACCATGGAATCCCTAAATG  
GTGGCAAAACCATTCCTGCAAGCTTTTTATGTGGATTTGCAGGGCGTCATCAAAACCTTTTCGATATTACGCAGGCT  
GGGCTGATAAAAATTCAITGGGATGACCATTCTGTAGATGGAGACTATTTTACCTTTACAAGACATGAACCCATTG  
GAGTGTGTGGACAGATCATCCCATGGAACCTCCCCCTGCTGATGTTTGCCTGGAAAATAGCTCCAGCTTTGTGCT  
GTGGCAATACAGTAGTTATTAAGCCAGCAGAGCAAACACCACCTCAGTGCACCTCTACATGGGAGCCCTCATCAAGG  
AGGCTGGCTTTCTCTCCGGGGTTCATCAATATTTTGCCAGGATATGGGCCAACGGCTGGGGCAGCAATAGCTTCTC  
ACATTGGCATAGACAAGATTGCATTACAGGGTCTACTGAGGTTGGAAAGCTTATCCAAGAAGCAGCTGGAAGAA  
GTAATTTGAAGAGAGTAACCTCTGGAACCTGGAGGCCAAAAGTCCTAATATTATTTTGTCTGATGCTGACTTGACT  
ATGCTGTGGAGCAGGCCCACCAGGTGTGTTCTTCAATCAAGGTCAGTGTGCACTGCAGGCTCTCGCATCTTCG  
TGGAGGAGTCCATCTATGAGGAGTTTGTGAGAAGAAGCGTGGAGCGGGCCAAGAGGCGCATAGTGGGGAGTCCCT  
TTGACCCACCACCTGAGCAGGGTCCCAGATTGATAAGAAACAGTACAACAAGATCTTGGAACCTCATCCAGAGTG  
GTGTGGCTGAGGGCGCCAAGCTGGAATGTGGAGGCCAAGGACTGGGCCGAAAGGGGTTTTTTCATTGAGCCACAG  
TGTTTTCCAACGTCACCTGATGATATGCGGATTGCCAAGGAGGAGATCTTTGGCCCTGTTTCAGGAAATTTTGAGAT  
TTAAGACGATGGATGAAGTTATCGAAAGAGCCAATAACTCAGACTTTGGACTCGTAGCAGCTGTCTTTACTAATG  
ACATCAACAAGGCCCTCACAGTGTCTTCTGCAATGCAAGCTGGGACTGTTTGGATCAATTGTTACAATGCCTTAA  
ATGCCCAGAGCCCCTTTGGGGGATTCAAGATGTCTGGAATGGGAGAGAAATGGGAGAATTTGGCTTGCGGGAGT  
ACTCAGAAGTTAAGACGGTGACAGTAAAGATCCCCCAGAAGAACTCC**TAAGA**AGGCCAAGAAGGAGGATGAAGCC  
CAGCCTGCACGTCTGTCCCTCTCTGCTTTCTCTGTAGGGCCCAGCTCTCAGGAATACAAAGTTGAGCCACGGTCC  
TTACTTAAAGATTGAAAAGATAACATGTAGGCCAGGCAGGTCAGTGCACAACCTAAAGCAAACCAGCTGGGTACAG  
TTTCTTGGCACTCTGTAAGGGGCCACCTTAATCATACCAAATATTGGGGAAAGTGGGATAAAGGGAGGAGGAGGA  
GCTAGCAGACACATCCAGTATCTCCTTCTGGAGCACAGGATGAAATAAGGGAGCTGTATTATTTTCATGTCTTTGT  
CACAAAGAACTTTCTCTCAAGGAAAGGTGACCTTTCTCCTGTCTTCATTTTCTCCTTCCAGGCCCTCTCTCGCT  
CACCCACCCCTCCCTCTCTTCCAAGGAGATGTGAGCTGAGCTCATTCTGGGGCAGATGTTTGGGCCGGGAACAAT  
TTTTCAAGGTTGTAAAGCCAAATTATCATTTTCATGTTATCCATTTCTTCAAAGCAAACATGAAATGGTTTTAGC  
TAGAGTCAGACCAGAATGAAAATGCCAGGAGCTGGTACACTACAGATGTAGTAAGAACCTGGGATATTCTTGACC  
CAATCTGGTTTTCTTTTACCCATAAATAACATGAATGAAAAAGATTGGGACAATAGAGACTGGAAGTCATCATG  
TGCAGTTCACCGCTTCTGAGCTTGCTGCAGTTTTGGGGTGTGTGTGTATTAGATTCTTCTCAGTTATTCTGGAA  
TAAGGCAAGGAGTGGGTTGTTTTTTCATAGCTAGATAAGATCTTTTCCAAAGTTTTTCTTAGAACCAACCAAAAA  
CAATCCGAGTAGGCCCAAGAATTTGATAATGCTGGATGCCTTGACAGACATCATTGAGTTTCTAATATTGGGCAAC  
AATTATTATTAAATGAATTATTTCTGTAGTTGGAATCTGTACCTTCTGAACCTCTACACCAATAACTGCTGCAGG  
TGTGATTTTGGTCTGTACACTGTACATCTATCATAATGTGCCCTGTATCTATTGGCAGTGACCTTGGAAAACTC  
GGCCAAGCCTAGGGGTTTTCTTTTCCATTTGCCAAGTCCATTGTGCCAGGACTGCCGTGCTCCACTGAGCTCCT  
CTGTCACACCCCATTCCTTGCCCTCACTGGGCAGGCCATGGCCTACAGCTTGCCAGGGAGTAAAGCAGGCCCGCT  
CCCTTTCTTCCCATCCACATACTCTCTTCTGCTTTCCAGTGACTCCACCAGTTTGATGTGGGAAGTGTTAGCTT  
CCTTTCTTCTTCCATCCCTTCTTCCATCTTTCCAGCTGTCAAATCCAATCCAGTCTCTAACCTAAATGCAGATC  
ATTTATTTAAAGTACCAAACATAACCCAGAGTATGTGGAATATGGGCAACATATATATAGCCTTCTGTATTTAA  
CGATCTTCTGCTTCTTAACCGTACCAGTTTTCTATTTATAACTCTTATCTATCCATGATGTTTTAAAGTCTCCAC  
TTGCTGTTATTTACAAACGACAGTGCATTACAGCAGCCAGTGCCGTGAGCCCTGACAGATGCCGTATTTCTGAGT  
GCTTCCATGTGAATGCTGCCCTCCTGTAGCATGTGTCCAAGTGACATAGCCACTAACCAACTAGTTACCTTTGG  
ACTGCAACAAAAAATGTGAAAATGAAGATTTATTTCTTTTAAATTTACTTAAAAAGAAACCTCTGTGCTAGCAATA  
AAGCATTTATATTGTGC

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**FIGURE 1186**

MDASERGRLLDKLADLVERDRAVLATMESLNGGKPFLLQAFYVDLQGVIKTFRYYAGWADKIHGMTIPVDGDYFTF  
TRHEPIGVCGQIIPWNFPLLMFAWKIAPALCCGNTVVIKPAEQTPLSALYMGALIKEAGFPPGVINILPGYGPTA  
GAAIASHIGIDKIAFTGSTEVGKLIQEAAGRSNLKRVTTLELGGKSPNIIFADADLDYAVEQAHQGVFFNQGCCT  
AGSRIFVEESIYEEFVRRSVERAKRRIVGSPFDPTTEQGPQIDKKQYNKILELIQSGVAEGAKLECGGKGLGRKG  
FFIEPTVFSNVTDDMRIAKEEIFGPVQEILRFKTMDEVIERANNSDFGLVAAVFTNDINKALTVSSAMQAGTVWI  
NCYNALNAQSPFGGFKMSGNGREMGEFGLREYSEVKTVTVKIPQKNS

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**FIGURE 1187**

GGAAACTTCTGCCTCAGGTGGGGAGAGGAGTCCATAGATCAGGGAACTTATGTCTTGGTGAAATGGAAGACCAT  
GTTTCTAAACACCTGTGCGCCAGGTTACTTGAATTTCCACTAGAGGAGCAGAAATGCCACCAATGCCAAGTGCCCC  
ACCTGTGCATCCACCTCCAGATGGAGGATGGGGTTGGATTGTGGTTGGAGCAGCTTTTATCTCCATTGGATTTTC  
CTATGCATTCCCCAAAGCTGTACCGTATTCTTCAAAGAAATTACAGCAAATATTCCACACTACCTACAGTGAAAT  
AGCATGGATTTTCATCCATTATGCTGGCTGTTATGTACGCAGGAGGTCCTGTAAGTAGTGTTTTGGTGAATAAATA  
CGGCAGCCGGCCGGTGGTGATAGCAGGAGGCTTATTATGCTGTCTTGGAAATGGTGTGGCCTCCTTTAGTAGCAG  
CGTGGTACAGCTGTACCTCACTATGGGATTCATTACAGTTTAGGTTTAGCCTTCAACCTGCAACCCGCCTTAAC  
CATAATTGGCAAATACCTTCTATAGGAAGCGACCCATGGCAAATGGATTGGCCATGGCAGGAAGTCCTGTTTTCTT  
AAGTTCATTGGCTCCTTTCAATCAGTACCTTTTTAATACTTTTGGCTGGAAAGGAAGCTTCCTGATTTTGGGAAG  
TCTACTTTTGAATGCCTGTGTGGCTGGTTCCCTCATGAGACCCCTTGGACCCAATCAAACCACTTCTAAGTCTAA  
AAATAAGACTGGCAAAACAGAAGATGATTCAAGCCCAAAGAAAATCAAACGAAGAAATCAACTTGGGAAAAAGT  
TAATAAGTATTTAGATTTCTCCCTTTTTAAGCATAGAGGATTTCTGATATATCTGTCTGGAAATGTCATTATGTT  
CCTAGGTTTTTTTTGCCCCATTATATTCTTGGCTCCATATGCTAAAGACCAAGGAATTGATGAGTACTCGGCAGC  
TTTTCTGCTATCTGTTATGGCTTTTCGTTGATATGTTTGCTAGGCCTTCTGTAGGATTAATTGCAAACCTCCAAATA  
TATTCGACCTCGAATTCAGTACTTCTTCAGTTTTGCAATCATGTTCAATGGAGTGTGTACCTCTTGTGCCCACT  
GGCACAGGACTACACAAGCCTGGTATTATATGCTGTATTTTTTGGCCTTGGATTTGGGAGTGTTAGCAGTGTCT  
CTTTGAAACTCTCATGGACCTCGTGGGTGCACCAAGATTTTCCAGTGCCGTCGGACTTGTCACAATTGTGGAGTG  
TGGCCCAGTTCTTCTTGGCCCTCCTCTTGCAGGTAAATTTGGTGGATTTAACTGGAGAATATAAATACATGTACAT  
GTCCTGTGGGGCTATTGTGGTAGCAGCAAGCGTGTGGCTGCTCATTGGCAATGCTATCAACTATAGATTGCTTGC  
AAAGGAAAGGAAGGAGGAAAATGCAAGGCAGAAAGTCCAGAGAATCTGAACCCTTGAGCAAATCTAAACATTCGGA  
AGATGTTAACGTCAAAGTTTCAAATGCACAGAGTGTAACCTCAGAAAGAGAACTAACATTTAACAAGAATCACA  
TCTCTGATTTTCACTGTTTTATGACTTTTATCTAGGAGTTTGTTTTTTCATTTTGTTTTTTTAAAGTATTAGAAAAGGT  
TTTAGCTGAAATGAGGAGTCACAATTAAGGATGGAGGTGATATTTTCTCAATGGCAAATTTTAAATTAGTTTT  
TAAAAACTTACTTATTTGGGTAGTTAAATTTTGGAGATTATGCATAGAAAGAATCCATGCTATAGGTTTATTTCCA  
TACCTGACTCTGGGTGTGGTGGTTAAAAATACTAATTTTAAAGTCTTCCAGTGACTTTTCGGTCTTGGTTATATGGA  
GAATTCCTGAATCCCAAACCCCTGGTTTAAAGTAGGTAGAAGGAGGATGCCTAATCCTACAAAGTGACCCTTTATAC  
ATTTCAATTTTTTATTTGATATTAAAGTATGAGATAGAGTTGAGAGACAATTAATTATCCCCTCTTACACACAAAC  
ACACATACTCCACATACTTACCCACATGTACACAGAGTATCTGGAGAATAAAACCCAAATTCAAAAAAAAAAAA  
AAAA

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**FIGURE 1188**

MPPMPSAPPVHPPPDGGWGWIVVGAAFI SIGFSYAFPKAVTVFFKEIQQIFHTTYSEIAWISSIMLAVMYAGGPV  
SSVLVNKYGSRPVVIAGGLLCCLGMVLASFSSSVVQLYLTMGFITGLGLAFNLQPALTIIGKYFYRKRPMANGLA  
MAGSPVFLSSLAPFNQYLFNTFGWKGSFLIILGSLLL NACVAGSLMRPLGPNQTTSKSKNKTGKTEDDSSPKKIKT  
KKSTWEKVNKYLDFSLFKHRGFLIYLSGNVIMFLGFFAPIIFLAPYAKDQGIDEYSAAFLLSVMAFVDMFARPSV  
GLIANSKYIRPRIQYFFSFAIMFNGVCHLLCPLAQDYTSLVLYAVFFGLGFGSVSSVL FETLMDLVGAPRESSAV  
GLVTIVECGPVLLGPPLAGKLVDLTG EYKMYMSCGAIVVAASVWLLIGNAINYRLLAKERKEENARQKSRESEP  
LSKSKHSEDVNVKVSNAQSVT SERETNI

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**FIGURE 1189**

GGGCTCGAACGCGCAGCGCACGGGAACCGGTCCCGCTGCTTGGGTTCAGGTTTCGCCGGTTCGCGGGAGCCCCGCCGT  
GCAGTCGGAGGAACACGTGGCCATCAGTAATCATGAGCAACCCATTTCGCACACCTTGCTGAGCCATTGGATCCTG  
TACAACCAGGAAAGAAATTCTTCAATTTGAATAAAATTGGAGGATTCAAGATATGGGCGCTTACCATTTTCGATCA  
GAGTTCTTCTGGAAGCAGCCATTTCGGAATTGTGATGAGTTTTTGGTGAAGAAACAGGATATTGAAAAATATTCTAC  
ATTGGAATGTCACTCAGCACAAGAACATAGAAGTGCCATTTAAGCCTGCTCGTGTTCATCTGCAGGACTTTACGG  
GTGTGCCCCGCTGTGGTTGACTTTGCTGCAATGCGTGATGCTGTGAAAAAGTTAGGAGGAGATCCAGAGAAAATAA  
ACCCGTGCTGCCCCTGCTGATCTTGTAATAGATCATTCCATCCAGGTTGATTTCAACAGAAGGGCAGACAGTTTAC  
AGAAGAATCAAGACCTGGAATTTGAAAGAAATAGAGAGCGATTTGAATTTTTTAAAGTGGGGTTCCCAGGCTTTTC  
ACAACATGCGGATTATTCCCCCTGGCTCAGGAATCATCCACCAGGTGAATTTGGAATATTTGGCAAGAGTGGTAT  
TTGATCAGGATGGATATTATTACCCAGACAGCCTCGTGGGCACAGACTCGCACACTACCATGATTGATGGCTTGG  
GCATTCTTGGTTGGGGTGTCTGGTGGTATTGAAGCAGAAGCTGTCTGCTGGGTTCAGCCAATCAGTATGGTGTCTC  
CTCAGGTGATTGGCTACAGGCTGATGGGGAAGCCCCACCCTCTGGTAACATCCACTGACATCGTGTCTACCATT  
CCAAGCACCTCCGCCAGGTTGGGGTAGTGGGCAAATTTGTCTGAGTTCTTCGGGCCTGGAGTAGCCAGTTGTCCA  
TTGCTGACCGAGCTACGATTGCTAACATGTGTCCAGAGTACGGAGCAACTGCTGCCTTTTTCCCAGTTGATGAAG  
TTAGTATCACGTACCTGGTGCAAACAGGTCGTGATGAAGAAAAATTAAAGTATATTAATAAATATCTTCAGGCTG  
TAGGAATGTTTTCGAGATTTCAATGACCCTTCTCAAGACCCAGACTTCACCCAGGTTGTGGAATTAGATTTGAAAA  
CAGTAGTGCCTTGCTGTAGTGGACCCAAAAGGCTCAGGACAAAGTTGCTGTGTCTCGACATGAAAAAGGACTTTG  
AGAGCTGCCTTGGAGCCAAGCAAGGATTTAAAGGATTCCAAGTTGCTCCTGAACATCATAATGACCATAAGACCT  
TTATCTATGATAACACTGAATTCACCCTTGCTCATGGTTCTGTGGTCAATTGCTGCCATTACTAGCTGCACAAACA  
CCAGTAATCCGTCTGTGATGTTAGGGGCAGGATTGTTAGCAAAGAAAGCTGTGGATGCTGGCCTGAACGTGATGC  
CTTACATCAAAACTAGCCTGTCTCCTGGGAGTGGCGTGGTCACCTACTACCTACAAGAAAGCGGAGTCATGCCTT  
ATCTGTCTCAGCTTGGGTTTGACGTGGTGGGCTATGGCTGCATGACCTGCATTGGCAACAGTGGGCCTTTACCTG  
AACCTGTGGTAGAAGCCATCACACAGGGAGACCTTGTAGCTGTTGGAGTACTATCTGGAAACAGGAATTTTGAAG  
GTCGAGTTACCCCCAACACCCGGGCCAACTATTTAGCCTCTCCCCCTTAGTAATAGCATATGCAATTGCTGGAA  
CCATCAGAATCGACTTTGAGAAAGAGCCATTGGGAGTAAATGCAAAGGGACAGCAGGTATTTCTGAAAGATATCT  
GGCCGACTAGAGACGAGATCCAGGCAGTGGAGCGTCAGTATGTCTATCCCGGGGATGTTTAAAGGAAGTCTATCAGA  
AAATAGAGACTGTGAATGAAAGCTGGAATGCCTTAGCAACCCCATCAGATAAGCTGTTTTTCTGGAATTCCAAAT  
CTACGTATATCAAATCACCACCATTCTTTGAAAACCTGACTTTGGATCTTCAGCCCCCTAAATCTATAGTGGATG  
CCTATGTGCTGCTAAATTTGGGAGATTTCGGTAACAACCTGACCACATCTCCCAGCTGGAAATATTGCAAGAAACA  
GTCCTGCTGCTCGCTACTTAACATAACAGAGGCCTAACTCCACGAGAATTCAACTCCTATGGCTCCCGCCGAGGTA  
ATGACGCCGTCATGGCACGGGGAACATTTGCCAACATTCGCTTGTTAAACAGATTTTGAACAAGCAGGCACCAC  
AGACTATCCATCTGCCTTCTGGGGAAATCCTTGATGTGTTTGATGCTGCTGAGCGGTACCAGCAGGCAGGCCTTC  
CCCTGATCGTTCTGGCTGGCAAAGAGTACGGTGACGGCAGCTCCCGAGACTGGGCAGCTAAGGGCCCTTCTCTGC  
TGGGAATCAAAGCCGTCTGGCCGAGAGCTACGAGCGCATTACCGCAGTAACCTGGTTGGGATGGGTGTGATCC  
CACTTGAATATCTCCCTGGTGAGAATGCAGATGCCCTGGGGCTCACAGGGCAAGAACGATACTACTATCATTATTC  
CAGAAAACCTCAAACCACAAATGAAAGTCCAGGTCAAGCTGGATACTGGCAAGACCTTCCAGGCTGTCTATGAGGT  
TTGACACTGATGTGGAGCTCACTTATTTCTCAACGGGGGCATCCTCAACTACATGATCCGCAAGATGGCCAAGT  
AGGAGACGTGCACTTGGTCTGTGCGCCAGGGAGGAAGCCGCACCACCAGCCAGCGCAGGCCCTGGTGGAGAGGCC  
TCCCTGGCTGCCCTCTGGGAGGGGTGCTGCCTTGATAGATGGAGCAAGTGAGCACTGAGGGTCTGGTGCCAATCCTG  
TAGGCACAAAACCAGAAGTTTCTACATTCTCTATTTTTGTGTAATCATCTTCTCTTTTTCCAGAATTTGGAAGCTA  
GAATGGTGGGAATGTCTAGTAGTGCCAGAAAGAGAGAACCAAGCTTGTCTTTAAAGTTACTGATCACAGGACGTTG  
CTTTTTCACTGTTTCTTATTAATCTTCAGCTGAACACAAGCAAACCTTCTCAGGAGGTGTCTCTACCCCTCTTAT  
TGTTCTCTTACGCTCTGCTCAATGAAACCTTCTCTTGAGGGTCATTTTCTTTCTGTATTAATTATACAGTG  
TTAAGTGACATAGATAAGAACTTTGCACACTTCAAATCAGAGCAGTGATTCTCTCTCTCTCCCCCTTTTCTTCA  
GAGTGAATCATCCAGACTCCTCATGGATAGGTGCGGTGTTAAAGTTGTTTTGATTATGTACCTTTTGATAGATCC  
ACATAAAAAGAAATGTGAAGTTTTCTTTTACTATCTTTTCATTTATCAAGCAGAGACCTTTGTTGGGAGGCGGTT  
TGGGAGAACACATTTCTAATTTGAATGAAATGAAATCTATTTTCAGTG

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**FIGURE 1190**

MSNPFAHLAEPLDPVQPGKKFFNLNKLEDSRYGRLPFSIRVLLEAAIRNCDEFLVKKQDIENILHWNVTQHKNIE  
VPFKPARVILQDFTGVPVAVVDFAAMRDAVKKLGGDPEKINPVCADLVIDHSIQVDFNRRADSLQKNQDLEFERN  
RERFEFLKWSQAFHNMRIIPPGSGIIHQVNLEYLARVVFDDQGYYPDSLVTGDSHTTMIDGLGILGWGVGGIE  
AEAVMLGQPI SMVLPQVIGYRLMGKPHPLVTSTDIVLTI TKHLRQVG VVGK FVEFFGPGVAQLSIADRATIANMC  
PEYGATAAFFPVDEV SITYLVQTGRDEEKLKYIKKYLQAVGMFRDFNDPSQDPDFTQVVELDLKTVVPCCSGPKR  
PQDKVAVSDMKKDFESCLGAKQGFKGFQVAPEHHNDHKTFIYDNTEFTLAHGSVVI AAIT SCTNTSNP SVMLGAG  
LLAKKAVDAGLVNMPYIKTSLSPGSGVVTTYLQESGVMPYLSQLGFDVVGYGCMT CIGNSGPLPEPVVEAITQGD  
LVAVGVLSGNRNFEGRVHPNTRANYLASPPLVIAYAIAGTIRIDFEKEPLGVNAKGQQVFLKDIWPTRDEIQAVE  
RQYVIPGMFKEVYQKIETVNESWNALATPSDKLFFWNSKSTYIKSPFFENLTLDLQPPKSIVDAYVLLNLGDSV  
TTDHISPAGNIARNSPAARYLTNRGLTPREFNSYGSRRGNDAVMARGTFANIRLLNRFLNKQAPQTIHLPSGEIL  
DVFDAAERYQQAGLPLIVLAGKEYGAGSSRDWAAKGPFLLGIKAVLAESYERIHRSNLVGMGVIPLEYLPGENAD  
ALGLTGQERYTIIIPENLKPQMKVQVKLDTGKTFQAVMRFDTDVELTYFLNGGILNYMIRKMAK

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**FIGURE 1191A**

GTAGATGAGGAACTGAAGTTGAGGAATAGTGAAGAGTTTGTCCAATGTCATAGCCCCGTAATCAACGGGACAAA  
AATTTTCTTGCTGATGGGTCAAGATGGCATCGTGAAGTGGTTGTTACCGTAAACTGTAATACAATCCTGTTTAT  
GGATTTGTTTGCATATTTTTCCCCCATAGGGAAACCTTTTTTCCATGGCTCAGGACACACTCCTGGATCGAGCC  
AACAGGAGAACTTTCTGGTAAGCATTGGCTAACTTTTTTTTTTTTGTAGATGGAGTCTTGCTGTGTCGCCCTAGGC  
TGGAGTGCAGTGGCGTGATCTTGGCTCACTGCAGCCTCCACCTCCCGGGTTCAATCAATTCTCTACCTCAACTT  
CCTGAGTAGCTGGGATTACAGGCGCCCGCCACCACACCCGGCTCATTTTTGTACTTTTAGTAGAGACACAGTTTT  
GCCATGTTGGCCAGGCTGGTCTTGAATTCCTCAGCTCAGGTGATATGCCTGCCTTGGCCTCTCAAAGTGCTGGGA  
TTACAGGCGTGAGCCACTGTGCCCGGCCTTGGCTAACTTTTCAAAATTAAAGATTTTGAAGTTGTTACAGTCATGT  
GACATTTTTTTCTTTCTGTTTGGTGAGTTTTTGATAATTTATATCTCTCAAAGTGGAGACTTTAAAAAAGACTCA  
TCTGTGTGCCGTGTTCACTGCCTGGTATCTTAGTGTGGACCGAAGCCTAAGGACCCTGAAAACAGCTGCAGATGA  
AGATGGCAAGCACCCGCTGCAAGCTGGCCAGGTACCTGGAGGACCTGGAGGATGTGGACTTGAAGAAATTTAAGA  
TGCACCTAGAGGACTATCCTCCCCAGAAGGGCTGCATCCCCCTCCCGAGGGGTGAGACAGAGAAGGCAGACCATG  
TGGATCTAGCCACGCTAATGATCGACTTCAATGGGGAGGAGAAGGCGTGGGCCATGGCCGTGTGGATCTTCGCTG  
CGATCAACAGGAGAGACCTTTATGAGAAAGCAAAAAGAGATGAGCCGAAGTGGGGTTTCAAGATAATGCACGTGTTT  
CGAATCCCACTGTGATATGCCAGGAAGACAGCATTGAAGAGGAGTGGATGGGTTTACTGGAGTACCTTTTCGAGAA  
TCTCTATTTGTAAGTGAAGAAAGATTACCGTAAGAAGTACAGAAAGTACGTGAGAAGCAGATTCCAGTGCATTG  
AAGACAGGAATGCCCGTCTGGGTGAGAGTGTGAGCCTCAACAAACGCTACACACGACTGCGTCTCATCAAGGAGC  
ACCGGAGCCAGCAGGAGAGGGAGCAGGAGCTTCTGGCCATCGGCAAGACCAAGACGTGTGAGAGCCCCGTGAGTC  
CCATTAAGATGGAGTTGCTGTTTGACCCCGATGATGAGCATTCTGAGCCTGTGCACACCGTGGTGTTCAGGGGG  
CGGCAGGGATTGGGAAAACAATCCTGGCCAGGAAGATGATGTTGGACTGGGCGTGGGGACACTCTACCAAGACA  
GGTTTGAATATCTGTTCTATATCCACTGTGCGGGAGGTGAGCCTTGTGACACAGAGGAGCCTGGGGGACCTGATCA  
TGAGCTGCTGCCCCGACCCAAACCCACCCATCCACAAGATCGTGAGAAAACCTCCAGAATCCTCTTCTCATGG  
ACGGCTTCGATGAGCTGCAAGGTGCCTTTGACGAGCACATAGGACCGCTCTGCACTGACTGGCAGAAGGCCGAGC  
GGGGAGACATTCTCTGAGCAGCCTCATCAGAAAGAAGCTGCTTCCCGAGGCCTCTCTGCTCATCACCACGAGAC  
CTGTGGCCCTGGAGAACTGCAGCACTTGCTGGACCATCCTCGGCATGTGGAGATCCTGGGTTTCTCCGAGGCCA  
AAAGGAAAGAGTACTTCTTCAAGTACTTCTCTGATGAGGCCAAGCCAGGGCAGCCTTCAGTCTGATTCAGGAGA  
ACGAGGTCTCTTACCATGTGCTTTCATCCCCCTGGTCTGCTGGATCGTGTGCACTGGACTGAAACAGCAGATGG  
AGAGTGGCAAGAGCCTTGCCAGACATCCAAGACCACCACCGCGGTGTACGTCTTCTTCTTCCAGTTTGCTGC  
AGCCCCGGGGAGGGAGCCAGGAGCACGGCCTCTGCGCCACCTCTGGGGGCTCTGCTCTTTGGCTGCAGATGGAA  
TCTGGAACCAGAAAATCCTGTTTGAGGAGTCCGACCTCAGGAATCATGGACTGCAGAAGGCGGATGTGTCTGCTT  
TCCTGAGGATGAACCTGTTCCAAAAGGAAGTGGACTGCGAGAAGTTCTACAGCTTCATCCACATGACTTTCCAGG  
AGTTCTTTGCCGCCATGTACTACCTGCTGGAAGAGGAAAAGGAAGGAAGGACGAACGTTCCAGGGAGTCGTTTGA  
AGCTTCCCAGCCGAGACGTGACAGTCCTTCTGGAACACTATGGCAAATTCGAAAAGGGGTATTTGATTTTTGTG  
TACGTTTCTCTTTGGCCTGGTAAACCAGGAGAGGACCTCCTACTTGGAGAAGAAATTAAGTTGCAAGATCTCTC  
AGCAAATCAGGCTGGAGCTGCTGAAATGGATTGAAGTGAAAGCCAAAGCTAAAAAGCTGCAGATCCAGCCCAGCC  
AGCTGGAATTGTTCTACTGTTTGTACGAGATGCAGGAGGAGGACTTCGTGCAAAGGGCCATGGACTATTTCCCCA  
AGATTGAGATCAATCTCTCCACCAGAATGGACCACATGGTTTCTTCTTTTGCATTGAGAACTGTCATCGGGTGG  
AGTCACTGTCCCTGGGGTTTCTCCATAACATGCCCAAGGAGGAAGAGGAGGAGGAAAAGGAAGGCCGACACCTTG  
ATATGGTGCAGTGTGTCCTCCCAAGCTCCTCTCATGCTGCCTGTTCTCATGGATTGGTGAACAGCCACCTCACTT  
CCAGTTTTTGGCCGGGCTCTTTTTCAGTTCTGAGCACCAGCCAGAGTCTAACTGAATTGGACCTCAGTGACAATT  
CTCTGGGGGACCCAGGGATGAGAGTGTGTGTGAAACGCTCCAGCATCCTGGCTGTAACATTCGGAGATTGTGGT  
TGGGGCGCTGTGGCCTCTCGCATGAGTGCTGCTTGCACATCTCCTTGGTCTCAGCAGCAACCAGAAGCTGGTGG  
AGCTGGACCTGAGTGACAACGCCCTCGGTGACTTCGGAATCAGACTTCTGTGTGTGGGACTGAAGCACCTGTTGT  
GCAATCTGAAGAAGCTCTGGTTGGTCAGCTGCTGCCTCACATCAGCATGTTGTGAGGATCTTGCATCAGTATTGA  
GCACCAGCCATTCCCTGACCAGACTCTATGTGGGGGAGAATGCCTTGGGAGACTCAGGAGTCGCAATTTTATGTG  
AAAAAGCCAAGAATCCACAGTGTAACCTGCAGAACTGGGGTTGGTGAATTCTGGCCTTACGTGAGTCTGTTGTT  
CAGCTTTGTCTCGGTACTCAGCACTAATCAGAATCTCACGCACCTTTACCTGCGAGGCAACACTCTCGGAGACA  
AGGGGATCAAACACTCTGTGAGGGACTCTTGACCCCGACTGCAAGCTTCAGGTGTTGGAATTAGACAACCTGCA

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**FIGURE 1191B**

ACCTCACGTCACACTGCTGCTGGGATCTTTCCACACTTCTGACCTCCAGCCAGAGCCTGCGAAAGCTGAGCCTGG  
GCAACAATGACCTGGGCGACCTGGGGGTCATGATGTTCTGTGAAGTGCTGAAACAGCAGAGCTGCCTCCTGCAGA  
ACCTGGGGTTGTCTGAAATGTATTTCAATTATGAGACAAAAAGTGCGTTAGAAACACTTCAAGAAGAAAAGCCTG  
AGCTGACCGTCGTCTTTGAGCCTTCTTGGTAGGAGTGGAAACGGGGCTGCCAGACGCCAGTGTTCTCCGGTCCCT  
CCAGCTGGGGGCCCTCAGGTGGAGAGAGCTGCGATCCATCCAGGCCAAGACCACAGCTCTGTGATCCTTCCGGTG  
GAGTGTCGGAGAAGAGAGCTTGCCGACGATGCCTTCCTGTGCAGAGCTTGGGCATCTCCTTTACGCCAGGGTGAG  
GAAGACACCAGGACAATGACAGCATCGGGTGTTGTTGTTCATCACAGCGCCTCAGTTAGAGGATGTTCTCTTGGT  
GACCTCATGTAATTAGCTCATTCAATAAAGCACTTTCTTTATTTT



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**FIGURE 1192**

MASTRCKLARYLEDLEDVDLKKFKMHLEDYPPQKGCIPLRGQTEKADHVDLATLMIDFNGEKAWAMAVWIFAA  
INRRDLYEKAKRDEPKWGSNDARVSNPTVICQEDSIEEEWMGLLEYLSRISICKMKKDYRKRYKYVRSRFQCIE  
DRNARLGESVSLNKRYTRLRLIKEHRSQQEREQELLAIGKTKTCESPVSPIKMELLFDPDDEHSEPVHTVVFQGA  
AGIGKTI LARKMMLDWASGTLYQDRFDYLFYIHCREVSLVTQ RSLGDLIMSCCPDPNPPHKKIVRKPSRILFLMD  
GFDELQGA FDEHIGPLCTDWQKAERGDILLSSLI RKKLLPEASLLITTRPVALEKLQHLLDHPRHVEILGFSEAK  
RKEYFFKYFSDEAQAARAAFSLIQENEVLFTMCFIPLVCWIVCTGLKQQMESGKSLAQTSKTTTAVYVFFLSSLLQ  
PRGGSQEHLCAHLWGLCSLAADGIWNQKILFEESDLRNHGLQKADVSAFLRMNLFQKEVDCEKFYSFIHMTFQE  
FFAAMYLLLEEKEGRTNVPGSRLKLP SRDVTVLLENYGFEGYLI FVVRFLFGLVNQERTSYLEKKLSCKISQ  
QIRLELLKWIEVKAKAKKLQIQPSQLELFYCLYEMQEEDFVQ RAMDYFPKIEINLSTRMDH MVSSFCIENCHRVE  
SLSLGLFLHNMPKEEEEEKEGRHLD MVQCVLPSSSHAACSHGLVNSHLTSSFCRGLFSVLSTSQSLTELDLSDNS  
LGDPGMRVLCETLQHPCNIRRLWLGRGGLSHECCFDISLVLSSNQKLVELDLSDNALGDFGIRLLCVGLKHLLC  
NLKKLWLVSCLTSACCQDLASVLSTSHSLTRLYVGENALGDSGVAILCEKAKNPQC NLQKLGLVNSGLTSVCCS  
ALSSVLSTNQNLTHLYLRGNTLGDKGIKLLCEGLLHPDCKLQVLELDNCNLTS HCCWDLSTLLTSSQSLRKLSLG  
NNDLGDLGVMMFCEVLKQQSCLLQNLGLSEMYFNYETKSALET LQEEKPELT VVFEPSW

CTCTGGGTCTCTCTCGGCGCCAGAGCCGCTCTCCGCATCCCAGGACAGCGGTGCGGCCCTCGGCCGGGGCGCCCACT  
CCGCAGCAGCCAGCGAGCCAGCTGCCCGTATGACCCGCGCCGGGCGCCGCCGGGCGCTGCCCTCCCACGACATGG  
CTGGGCTCCCTGCTGTTGTTGGTCTGTCTCTCTGGCGAGCAGGAGTATCACCGAGGAGGTGTGCGAGTACTGTAGC  
CACATGATTGGGAGTGGACACCTGCAGTCTCTGCAGCGGCTGATTGACAGTCAGATGGAGACCTCGTGCCAAATT  
ACATTTGAGTTTGTAGACCAGGAACAGTTGAAAAGATCCAGTGTGCTACCTTAAGAAGGCATTTCTCCTGGTACAA  
GACATAATGGAGGACACCATGCGCTTCAGAGATAAACACCGCCAATCCCATCGCCATTGTGCAGCTGCAGGAACTC  
TCTTTGAGGCTGAAGAGCTGCTTCACCAAGGATTATGAAGAGCATGACAAGGCCTGCGTCCGAACCTTTCTATGAG  
ACACCTCTCCAGTTGCTGGAGAAGGTCAAGAATGTCTTTAATGAAACAAAGAATCTCCTTGACAAGGACTGGAAT  
ATTTTCAGCAAGAAGTGAACAACAGCTTTGCTGAATGCTCCAGCCAAGATGTGGTGACCAAGCCTGATTGCAAC  
TGCCTGTACCCCAAAGCCATCCCTAGCAGTGACCCGGCCTCTGTCTCCCTCATCAGCCCCCTCGCCCCCTCCATG  
GCCCCCTGTGGCTGGCTTGACCTGGGAGGACTCTGAGGGAACCTGAGGGCAGCTCCCTCTTGCTGGTGAGCAGCCC  
CTGCACACAGTGGATCCAGGCAGTGCCAAGCAGCGGCCACCCAGGAGCACCTGCCAGAGCTTTGAGCCGCCAGAG  
ACCCAGTTGTCAAGGACAGCACCATCGGTGGCTCACCACAGCCTCGCCCCCTCTGTGCGGGCCTTCAACCCCGGG  
ATGGAGGATATTCTTGACTCTGCAATGGGCCTAATTGGGTCCCAGAAGAAGCCTCTGGAGAGGCCAGTGAGATT  
CCCGTACCCCAAGGGACAGAGCTTTCCCCCTCCAGGCCAGGAGGGGGCAGCATGCAGACAGAGCCCGCCAGACCC  
AGCAACTTCCTCTCAGCATCTTCTCCACTCCCTGCATCAGCAAAGGGCCAACAGCCGGCAGATGTAAGTGTCTACA  
GCCTTGCCCAGGGTGGGCCCCGTGATGCCCCTGGCCAGGACTGGAATCACACCCCCCAGAAGACAGACCATCCA  
TCTGCCCTGCTCAGAGACCCCCCGAGCCAGGCTCTCCAGGATCTCATCTGCGCCCCCAGGCCCTCAGCAAC  
CCCTCCACCTCTCTGCTCAGCCACAGCTTTCCAGAAGCCACTCCTCGGGCAGCGTGTGCCCCCTTGGGGAGCTG  
GAGGGCAGGAGGAGCACCAGGGATCGGACGAGCCCCGAGAGCCAGAAGCAGCACCAGCAAGTGAAGGGGCAGCC  
AGGCCCCCTGCCCCGTTTTAACTCCGTTCCCTTTGACTGACACAGGCCATGAGAGGCAGTCCGAGGGATCCTCCAGC  
CCGCAGCTCCAGGAGTCTGTCTTCCACCTGCTGGTGCCAGTGTCTATCCTGGTCTTGCTGGCTGTGCGAGGCCTC  
TTGTTCTACAGGTGGAGGCGGCGGAGCCATCAAGAGCCTCAGAGAGCGGATTCTCCCTTGAGCAACCAGAGGGG  
AGCCCCCTGACTCAGGATGACAGACAGGTGGAAGTCCAGTGTAGAGGGGAATTCTAAGCTGGACGCACAGAACAG  
TCTCTTCTGTTGGGAGGAGACATTATGGGGCGTCCACCACCACCCCTCCCTGGCCATCCTCCTGGAATGTGGTCTGC  
CCTCCACCAGAGCTCCTGCCTGCCAGGACTGGACCAGAGCAGCCAGGCTGGGGCCCCCTCTGTCTCAACCCGCAGA  
CCCTTGACTGAATGAGAGAGGCCAGAGGATGCTCCCCATGCTGCCACTATTTATTGTGAGCCCTGGAGGCTCCCA  
TGTGCTTGAGGAAGGCTGGTGAGCCCGGCTCAGGACCCTCTTCCCTCAGGGGCTGCAGCCTCCTCTCACTCCCTT  
CCATGCCGGAACCCAGGCCAGGGACCCACCGGCCTGTGGTTTGTGGGAAAGCAGGGTGCACGCTGAGGAGTGAAA  
CAACCTTGACCCAGAGGGCCTGCCTGGTGCCAAGGTATCCAGCCTGGACAGGCATGGACCTGTCTCCAGACAG  
AGGAGCCTGAAGTTCTGTTGGGGCGGGACAGCCTCGGCCTGATTTCCCGTAAAGGTGTGCAGCCTGAGAGACGGGAA  
GAGGAGGCCTCTGCACCTGCTGGTCTGCACTGACAGCCTGAAGGGTCTACACCTCGGCTCACCTAAGTCCCTGT  
GCTGGTTGCCAGGCCCAGAGGGGAGGCCAGCCCTGCCCTCAGGACCTGCCTGACCTGCCAGTGATGCCAAGAGGG  
GGATCAAGCACTGGCCTCTGCCCCCTCCTCCTTCCAGCACCTGCCAGAGCTTCTCCAGCAGGCCAAGCAGAGGCTC  
CCCTCATGAAGGAAGCCATTGCACTGTGAACACTGTACCTGCCTGCTGAACAGCCTCCCCCGTCCATCCATGAG  
CCAGCATCCGTCCGTCTCCTCACTCTCCAGCCTCTCCCCAGCCTCCTGCAGTGTGAGCTGGCCTCACCAGTCGACTGA  
GGGAGCCCCCTCAGCCCTGACCTTCTCCTGACCTGGCCTTTGACTCCCCGGAGTGGAGTGGGGTGGGAGAACCTCC  
TGGGCCGCCAGCCAGAGCCGCTCTTTAGGCTGTGTTCTTCGCCCAGTTTCTGCATCTTCCACTTTGACATTCCC  
AAGAGGGAAGGGACTAGTGGGAGAGAGCAAGGGAGGGGAGGGCACAGACAGAGAGCCTACAGGGCGAGCTCTGAC  
TGAAGATGGGCCTTTGAAATATAGGTATGCACCTGAGGTGAGGGGAGGGTCTGCACTCCCAAACCCAGCGCAGT  
GTCCTTTCCCTGCTGCCGACAGGAACCTGGGGCTGAGCAGGTTATCCCTGTCAGGAGCCCTGGACTGGGCTGCAT  
CTCAGCCCCACCTGCATGGTATCCAGCTCCCATCCACTTCTCACCTTCTTTCTCCTGACCTTGGTCAGCAGTG  
ATGACCTCCAACCTCTACCCACCCCTCTACCATCACCTCTAACCAGGCAAGCCAGGGTGGGAGAGCAATCAGGA  
GAGCCAGGCCTCAGCTTCCAATGCCTGGAGGGCCTCCACTTTGTGGCCAGCCTGTGGTGCTGGCTCTGAGGCCTA  
GGCAACGAGCGACAGGGCTGCCAGTTGCCCTGGGTTCCCTTTGTGCTGCTGTGTGCTCCTCTCCTGCCGCCCTT  
TGTCTCCGCTAAGAGACCCTGCCCTACCTGGCCGCTGGGCCCCGTGACTTTCCCTTCTGCCCAGGAAAGTGAG  
GGTCGGCTGGCCCCACCTTCCCTGTCTGATGCCGACAGCTTAGGGAAAGGGCACTGAACCTGCATATGGGGCTTA  
GCCTTCTAGTCACAGCCTCTATATTTGATGCTAGAAAAACATATTTTTAAATGGAAGAAAAATAAAAAGGCATT

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**FIGURE 1193B**

CCCCCTTCATCCCCCTACCTTAAACATATAATATTTTAAAGGTCAAAAAGCAATCCAACCCACTGCAGAAGCTC  
TTTTTGAGCACTTGGTGGCATCAGAGCAGGAGGAGCCCCAGAGCCACCTCTGGTGTCCCCCAGGCTACCTGCTCA  
GGAACCCCTTCTGTTCTCTGAGAACTCAACAGAGGACATTGGCTCACGCACTGTGAGATTTTGTATTTTATACTTG  
CAACTGGTGAATTATTTTTTATAAAGTCATTTAAATATCTATTTAAAAGATAGGAAGCTGCTTATATATTTAATA  
ATAAAAGAAGTGCACAAGCTGCCGTTGACGTAGCTCGAG

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**FIGURE 1194**

MTAPGAAGRCPPTTWLGSLLLLVCLLASRSITEEVSEYCSHMIGSGHLQSLQRLIDSQMETSCQITFEFVDQEQ  
KDPVCYLKKAFLLVQDIMEDTMRFRDNTANPIAIVQLQELSLRLKSCFTKDYEEDKACVRTFYETPLQLLEKVK  
NVFNETKNLLDKDWNIFSKNCNNSFAECSSQDVVTKPDCNCLYPKAIPSSDPASVSPHQPLAPSMAPVAGLTWED  
SEGTEGSSLLPGEQPLHTVDPGSAKQRPPRSTCQSFEPPEPVPVKDSTIGGSPQPRPSVGAFFNPGMEDILDSAMG  
TNWVPEEASGEASEIPVPQGTELSRPGGGSMQTEPARPSNFLSASSPLPASAKGQQPADVTATALPRVGPVMP  
TGQDWNHTPQKTDHPSALLRDPPEPGSPRISSLRPQALSNPSTLSAQPQLSRSHSSGSVLPLGELEGRRSTRDRT  
SPAEPAAAPASEGAARPLPRFNSVPLTDTGHERQSEGSSSPQLQESVFHLLVPSVILVLLAVGGLLFYRWRRRSH  
QEPQRADSPLEQPEGSPLTQDDRQVELPV

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**FIGURE 1195**

CTAAAGTTTTTTCTTTGAATGACAGAACTACAGCATA**ATG**CGTGGCTTCAACCTGCTCCTCTTCTGGGGATGTT  
GTGTTATGCACAGCTGGGAAGGGCACATAAGACCCACACGGAAACCAAACACAAAGGGTAATAACTGTAGAGACA  
GTACCTTGTGCCAGCTTATGCCACCTGCACCAATACGGTGGACAGTTACTATTGCACTTGCAAACAAGGCTTCC  
TGTCCAGCAATGGGGCAAAATCACTTCAAGGATCCAGGAGTGCAGATGCAAAGATATTGATGAATGTTCTCAAAGCC  
CCCAGCCCTGTGGTCCTAACTCATCCTGCAAAAACCTGTGAGGGAGGTACAAGTGCAGCTGTTTAGATGGTTTCT  
CTTCTCCCACTGGAAATGACTGGGTCCCAGGAAAGCCGGGCAATTTCTCCTGTACTGATATCAATGAGTGCCTCA  
CCAGCAGGGTCTGCCCTGAGCATTCTGACTGTGTCAACTCCATGGGAAGCTACAGTTGCAGCTGTCAAGTTGGAT  
TCATCTCTAGAACTCCACCTGTGAAGACGTGAATGAATGTGCAGATCCAAGAGCTTGCCAGAGCATGCAACTT  
GTAATAACACTGTTGGAACTACTCTTGTCTTCTGCAACCCAGGATTTGAATCCAGCAGTGGCCACTTGAGTTGCC  
AGGGTCTCAAAGCATCGTGTGAAGATATTGATGAATGCACTGAAATGTGCCCCATCAATTCAACATGCACCAACA  
CTCCTGGGAGCTACTTTTGCACCTGCCACCCTGGCTTTGCACCAAGCAGTGGACAGTTGAATTTACAGACCAAG  
GAGTGGAAATGTAGAGATATTGATGAGTGGCGCAAGATCCATCAACCTGTGGTCCTAATTCTATCTGCACCAATG  
CCCTGGGCTCCTACAGCTGTGGCTGCATTGTAGGCTTTCATCCCAATCCAGAAGGCTCCCAGAAAGATGGCAACT  
TCAGCTGCCAAAGGGTTCTCTTCAAATGTAAGGAAGATGTGATACCCGATAATAAGCAGATCCAGCAATGCCAAG  
AGGGAACCGCAGTGAAACCTGCATATGTCTCCTTTTGTGCACAAATAAATAACATCTTCAGCGTTCTGGACAAAG  
TGTGTGAAAATAAAACGACCGTAGTTTCTCTGAAGAATACAACCTGAGAGCTTTGTCCCTGTGCTTAAACAAATAT  
CCATGTGGACTAAATTCACCAAGGAAGAGACGTCTCCTCGGCCACAGTCTTCTGGAGAGTGTGGAAAGCATGA  
CACTGGCATCTTTTGGAAACCTCAGCAAATGTCACTCCGGCTGTTGCGGCGGAATACTTAGACATTGAGAGCA  
AAGTTATCAACAAAGAATGCAGTGAAGAGAATGTGACGTTGGACTTGGTAGCCAAGGGGGATAAGATGAAGATCG  
GGTGTTCACAAATTGAGGAATCTGAATCCACAGAGACCACTGGTGTGGCTTTTGTCTCCTTTGTGGGCATGGAAT  
CGGTTTTTAAATGAGCGCTTCTTCCAAGACCACCAGGCTCCCTTGACCACCTCTGAGATCAAGCTGAAGATGAATT  
CTCGAGTCGTTGGGGGCATAATGACTGGAGAGAAGAAAGACGGCTTCTCAGATCCAATCATCTACACTCTGGAGA  
ACGTTTCAGCCAAAGCAGAAGTTTGAGAGGGCCATCTGTGTTTCTGGAGCACTGATGTGAAGGGTGGAAAGATGGA  
CATCCTTTGGCTGTGTGATCCTGGAAGCTTCTGAGACATATACCATCTGCAGCTGTAATCAGATGGCAAATCTTG  
CCGTTATCATGGCGTCTGGGGAGCTCACGATGGACTTTTCTTGTACATCATTAGCCATGTAGGCATTATCATCT  
CCTTGGTGTGCTCGTCTTGGCCATCGCCACCTTTCTGCTGTGTGCTCCATCCGAAATCACAACACCTACCTCC  
ACCTGCACCTCTGCGTGTGTCTCCTCTTGGCGAAGACTCTCTTCTCGCCGGTATACACAAGACTGACAACAAGA  
CGGGCTGCGCCATCATCGCGGGCTTCTGCACTACCTTTTCTTGCCTGCTTCTTCTGGATGCTGGTGGAGGCTG  
TGATACTGTTCTTGATGGTCAGAAACCTGAAGGTGGTGAATTACTTCAGCTCTCGCAACATCAAGATGCTGCACA  
TCTGTGCCCTTTGGTTATGGGCTGCCGATGCTGGTGGTGGTGAATCTCTGCCAGTGTGCAGCCACAGGGCTATGGAA  
TGCATAATCGCTGCTGGCTGAATACAGAGACAGGGTTCATCTGGAGTTTCTTGGGGCCAGTTTGCACAGTTATAG  
TGATCAACTCCCTTCTCCTGACCTGGACCTTGTGGATCCTGAGGCAGAGGCTTTCAGTGTAAATGCCGAAGTCT  
CAACGCTAAAAGACACCAGGTTACTGACCTTCAAGGCCTTTGCCAGCTCTTCATCCTGGGCTGCTCCTGGGTGC  
TGGGCATTTTTCAGATTGGACCTGTGGCAGGTGTGATGGCTTACCTGTTTACCATCATCAACAGCCTGCAGGGGG  
CCTTCATCTTCTCATCCACTGTCTGCTCAACGGCCAGGTACGAGAAGAATACAAGAGGTGGATCACTGGGAAGA  
CGAAGCCCAGCTCCCAGTCCCAGACCTCAAGGATCTTGCTGTCTTCCATGCCATCCGCTTCCAAGACGGGT**TAA**  
GCCTTTCTTGCTTTCAAATATGCTATGGAGCCACAGTTGAGGACAGTAGTTTCTTGCAGGAGCCTACCCTGAAAT  
CTCTTCTCAGCTTAACATGGAAATGAGGATCCCACCAGCCCCAGAACCCTCTGGGGAAGAATGTTGGGGGGCCGTC  
TTCCTGTGGTTGTATGCACTGATGAGAAATCAGACGTTTCTGCTCCAAACGACCATTTTATCTTCGTGCTCTGCA  
ACTTCTTCAATTCCAGAGTTTCTGAGAACAGACCCAAATTCAATGGCATGACCAAGAACACCTGGCTACCATTTT  
GTTTTCTCCTGCCCTTGTGGTGCATGGTTCTAAGCGTGCCCTCCAGCGCTATCATACGCCTGACACAGAGAA  
CCTCTCAATAAATGATTTGTGCGCTGTCTGACTGATTTACCCTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1196**

MRGFNLLLFWGCCVMHSEWEGHIRPTRKPNTKGNNCRDSTLCPAYATCTNTVDSYYCTCKQGFLSSNGQNHFKDPG  
VRCKDIDECSSQSPQPCGPNSSCKNLSGRYKCSCLDGFSSPTGNDWVPGKPGNFSCDINECLTSRVCPEHSDCVN  
SMGSYSCSCQVGFISRNSTCEDVNECADPRACPEHATCNNTVGNYSFCNPGFESSGHLSCQGLKASCEDIDEC  
TEMCPINSTCTNTPGSYFCTCHPGFAPSSGQLNFTDQGVCECRDIDECRQDPSTCGPNSICTNALGSYSCGCIVGF  
HPNPEGSQKDGNFSCQRVLFKCKEDVIPDNKQIQQCQEGTAVKPAYVSFCAQINNIFSVLDKVCENKTTVVSLKN  
TTESFVPVLKQISMWTKFTKEETSSLATVFLESVESMTLASFWKPSANVTPAVRAEYLDIESKVINKECSEENV  
LDLVAKGDKMKIGCSTIEESESTETTGVAFVSFVGMEVSLNERFFQDHQAPLTTSEIKLKMNSRVVGGIMTGEKK  
DGFSDPIIYTLNVQPKQKFERPICVSWSTDVKGGRWTSFGCVILEASETYTICSCNQMANLAVIMASGELTMDF  
SLYIISHVGIIISLVCLVLAIATFLLCRSIRNHNTYLHLHLVCVCLLLAKTLFLAGIHKTDNKTGCAIIAGFLHYL  
FLACFFWMLVEAVILFLMVRNLKVVNYSRNIKMLHICAFGYGLPMLVVVISASVQPQGYGMHNRCLNTETGF  
IWSFLGPVCTVIVINSLLLWTWLWILRQLSSVNAEVSTLKDTRLLTFKAFAQLFILGCSWVLGIFQIGPVAGVM  
AYLFTIINSIQGAFIFLIHCLLNGQVREEYKRWITGKTKPSSQSQTSRILLSSMPSASKTG

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**FIGURE 1197A**

CATGGCGGCGACTGCGGCAAAGCGAGAGCCTCGGAGACGCCGCTGCCGCCAGCACAGCCGGAGATCTGAGCCGAC  
ACTGGGGGCGAGTCCGCGAGCCCCGCACTCTCTCGATGAGTCGGAGAAGTCCCGTTGTATCAGAGTAAGATGGACG  
GTAGCTTTGATTGTGATTGTGGTGAGCTGGAGCCACCTGATCACTAACAAAAGACATCTTCTGTTAAACCAACAGC  
CGCCAGGCTTCCTGTTGAAATAAATATATAGCAACAAAGGAAAAAAGAAGCAAAACGGAAATAGTGCTTACCAG  
CACCTTAGAATGATGCTGCTCAGGACCAGTCCAACACTGAATGTATCTGCACTGTGAGGAGAATGTTTCATAGAAG  
CCTGTTGTGTGCATATTTTATTCACTTTTTGTAAATGTTAAATCGTTTAGCACGGTAATCTGAGTGCACAGTATG  
TCATTTCAATCCGTTTGAGTTTCTTGTTCGTAAATGTCTGCAGAGTTGCTGCCCCCTTCTTGAACATAGAGT  
ACTGCAATCTTTTTAATTCTCAATATGAATAGAGCTTTTTGAGCTTTAAATCTAAGGGGAAGTGCACAGGCCTGT  
TTGGCATATGCAATGAACATCAAGAAACCATCTTGCTGTGGAAGCATAATTATTTTTCTTCTCCCTTTTTGAAAG  
ATCTTTCCTTTTGATGCCAGTTTTCTTCTTGTACACAAGTTCAATTTGAAAGGAAAAGGCAATAGTAAGGGT  
TTCAAAATGGCAGAGAAATTTGAAAGTCTCATGAACATTGATGGTTTTGATCTGGGTTCTAGGTATATGGACTTA  
AAACCATTTGGGTTGTGGAGGCAATGGCTTGGTTTTTCTGCTGTAGACAATGACTGTGACAAAAGAGTAGCCATC  
AAGAAAATTGTCCTTACTGATCCCCAGAGTGTCAAACATGCTCTACGTGAAATCAAAATTATTAGAAGACTTGAC  
CATGATAACATTGTGAAAGTGTGAGATTCTTGGTCCCAGTGGGAAGCCAATTAACAGACGATGTGGGCTCTCTT  
ACGGAAGTGAACAGTGTGTTACATTGTTTACAGGAGTACATGGAGACAGACTTGGCTAATGTGCTGGAGCAGGGCCCT  
TTACTGGAAGAGCATGCCAGGCTTTTCATGTATCAGCTGCTACGGGGGCTCAAGTATATTCACTCTGCAAATGTA  
CTGCACAGAGATCTCAAACCAGCTAATCTTTTCATTAATACGGAAGACTTGGTGCTGAAGATAGGTGACTTTGGT  
CTTGACCGGATCATGGATCCTCATTATTCCCATAAGGGTCATCTTCTGAAGGATTGGTTACTAAATGGTACAGA  
TCTCCACGCTCTTTTACTTTCTCCTAATAATTATACTAAAGCCATTGACATGTGGGCTGCAGGCTGCATCTTTGCT  
GAAATGCTGACTGGTAAACCCCTTTTTGTCAGGTGCACATGAACCTGAACAGATGCAGCTGATTTTAGAATCTATT  
CCTGTTGTACATGAGGAAGATCGTCAGGAGCTTCTCAGCGTAATTCCAGTTTACATTAGAAATGACATGACTGAG  
CCACACAAACCTTTAACTCAGCTGCTTCCAGGAATTAGTCGAGAAGCACTGGATTTCTGGAACAAATTTTGACA  
TTTAGCCCCATGGATCGGTTAACAGCAGAAGAAGCACTCTCCCATCCTTACATGAGCATATATTCTTTTCCAATG  
GATGAGCCAATTTCAAGCCATCCTTTTCATATTGAAGATGAAGTTGATGATATTTTGCTTATGGATGAAACTCAC  
AGTCACATTTATAACTGGGAAAGGTATCATGATTGTGAGTTTTAGAGCATGATTGGCCTGTACATAACAACCTT  
GATATTGATGAAGTTTCACTTGTATCCAAGAGCTCTGTCCGATGTCACTGATGAAGAAGAAGTACAAGTTGATCCC  
CGAAAAATATTTGGATGGAGATCGGGAAAAGTATCTGGAGGATCCTGCTTTTGATACCAATTACTCTACTGAGCCT  
TGTTGGCAATACTCAGATCATCATGAAAACAAATATTGTGATCTGGAGTGTAGCCATACTTGTAACACAAAACG  
AGGTCATCATCATATTTAGATAACTTAGTTTGAGAGAGAGTGAAGTTAACCATTACTATGAACCCAAGCTTATT  
ATAGATCTTTCCAATTGGAAAGAACAAAGCAAGAAAAATCTGATAAGAAAGGCAAATCAAAATGTGAAAGGAAT  
GGATTGGTTAAAGCCCAGATAGCGCTAGAGGAAGCATCACAGCAACTGGCTGGAAAAGAAAGGGAAAAGAATCAG  
GGATTTGATTTTGATTCTTTATTGCAGGAACATTCAGCTTAGTTCCAGCATGAGCCTACTGATGTTGTTGAT  
AAATTAATGACTTGAATAGCTCAGTGTCCCACTAGAATTGAAAAGTTTGATATCAAAGTCAGTAAGCCAAGAA  
AAACAGGAAAAAGGAATGGCAAATCTGGCTCAATTAGAAGCCTTGTACCAGTCTTCTTGGGACAGCCAGTTTGTG  
AGTGGTGGGGAGGACTGTTTTTTCATAAATCAGTTTTGTGAGGTAAGGAAGGATGAACAAGTTGAGAAGGAAAAC  
ACTTACACTAGTTACTTGGACAAGTTCTTTAGCAGGAAAAGAAGATACTGAAATGCTAGAAACTGAGCCAGTAGAG  
GATGGGAAGCTTGGGGAGAGAGGACATGAGGAAGGATTTCTGAACAACAGTGGGGAGTTCTCTTTAACAAGCAG  
CTCGAGTCCATAGGCATCCACAGTTTCACAGTCCAGTTGGGTCACCACTTAAGTCAATACAGGCCACATTAACA  
CCTTCTGCTATGAAATCTTCCCTCAAATTCCTCATCAAACATACAGCAGCATTCTGAAACATCTGAACATAAAC  
ACTCAGCAGACATTTATCTTTGTATTCTTCATGAAATGTGTTTTGTCTTTTTTTTATTACTAGTGTTTAAGTCATT  
TTTTACTTGAATCAGATGGTGTGATTTAGTAAGGATTTTATGAGTTCTTGTTTTTTTAAATCCAGACTTTCTTTT  
TCTACATGTGAGATAGTTTTTCAATTTAACTGGCATGTCATTTGCACACAAAAATAAAGACTAGAGCAAAAAATAG  
CAACGCAGGAGGAGAAAAGAAATGCACTAAGACAAGAACATTCTCTCATAGAACATTGATCTGTTTTTACAGGAAA  
CAAACCTTGCCTTGAAATTTACACAGTGAGACTGTACATAATTGCATGAAAATAGCTATTTTTTTTCTTAAGACAT  
TTTTCAATTCATGAATATTTTCAAGTTTTTTCATACTGTACACATTTCTTAAACACATGATACCAGCAGCAACTGA  
AAATGAATGCCGAATTTGGTACACATGTGTTATCTACCTCAAGGTAACAAGAGTATGTGGCAAAACATATACCAC  
CCATAGTGCTTCACAAAATGCACTTCTATTTAGCCAGCGTTTATTGTAGTAACTATTCTTAATAAAACTCACTC  
ACTGTTTATAAATGTTCTGGTATGCATTCTTTATAGTGAAGTGTTAATACATCACATCTTATTTATTTTAGCAAA

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**FIGURE 1197B**

TCAGTATATTTTCTGTATTTAATTATAAAAAATTAACCTTAGTTTTTAAAATTTATTTGCAAATATACTTTTTCCA  
TTTGGCACTATGGTTTGTTGCCTACCTAGCTGCATCTATAATGTCAGCTTATCCTAAGGCTGTCCACGTACTTAA  
TTTACTTAAGTGTTTCATTTTAAGTAACGTGCTCACTGTGTATAGGAATTTGTATTTTGGAGGTGCTTGATCTATC  
TACAAAGAAAAATTAATTAGGAATTACTTTATTATAAAAATGCTCCTAGAAAGTCTTAATTGTGTTTATTTTTTAAA  
AAAACAAATGTTAGACTTGTGTGCATGGAAGTAATTAAGGTACATCATTATTGTAGTTTGAAAGTTGTACATGAT  
AAGACATTTTGTTTTTACTGTATGTTTTTACTGAATGATCTATTCCCATCCCAAGGCAAGCATGAATAAAATTA  
GGTTAAACGTAGCATGTGGCATCGCAGTCTCTTAGAATTTGTTTCATCTATTTTATTTTATTGAATACTGTCTGT  
ATCTTTGGTTATCCTGTTTGAAGAAAAAGGACAAATAAAACATGGCCAGCAAATACAAAAAAAAAAAAA



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**FIGURE 1198**

MAEKFESLMNIHGFDLGSRYMDLKPLGCGGNGLVFSAVDNDCKRVAIKKIVLTDPQSVKHALREIKIIRRLDHD  
NIVKVFEILGPSGSQLTDDVGSLTELNSVYIVQEYMETDLANVLEQGPLEEHARLFMYQLLRGLKYIHSANVLH  
RDLKPANLFINTEDLVLKIGDFGLARIMDPHYSHKGHLSEGLVTKWYRSPRLLSPNNYTKAIDMWAAGCIFAEM  
LTGKTLFAGAHELEQMQLILESIPVVHEEDRQELLSVIPVYIRNDMTEPHKPLTQLLPGISREALDFLEQILTFS  
PMDRLTAAEALSHPYMSIYSFPMDEPISSHPIEDVDDILLMDETHSHIYNWERYHDCQFSEHDWVPVHNNFDI  
DEVQLDPRALSDVTDEEEVQVDPRKYLDGDREKYLEDPAFDTNYSTEPWCWQYSDHHENKYCDLECSHTCNYKTRS  
SSYLDNLVWRESEVNHYEYEPKLIIDLSNWKEQSKEKSDKKGKSKCERNGLVKAQIALEEASQQLAGKEREKNQGF  
DFDSFIAGTIQLSSQHEPTDVVDKLNLDLSSVSQLELKSLISKSVSQEKQEKGMANLAQLEALYQSSWDSQFVSG  
GEDCFFINQFCEVRKDEQVEKENTYTSYLDKFFSRKEDTEMLETEPVEDGKLGERGHEEGFLNNSGEFLFNKQLE  
SIGIPQFHSFVGSPLKSIQATLTPSAMKSSPQIPHQTYSSILKHLN

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**FIGURE 1199**

GCATTCCCCACACAACACCCACACTCAGCCACTGCGGGCGAGGAGGGCACGAGGCCAGGTTCCCAAGAGCTCAGG  
TTTGTCTTGGAACCCAGATGGACTGTGGCCGGGCAAGTGGATCACAGGCCTGGCCAGCCTAGGAGTTGCCACATG  
TGAGGGGCGCGAGGGGCTCAAGGAGGGGAACATCGGGGAGAGGAGCCTACTGGGTGGAGGCTGGGGGTCCCAGCAG  
GAAATGGTGAGACAAAGGGCGCTGGCTGGCAGGAAGACAGCACAGGAAGGTCCTAGAGGTTTCTCAGTGCAGCTG  
GACTCTCCTGGAGACCTTCACACACCCTGACATCTGGGCCCCGTTCCACGAGGGTGCTTTTCACTGGTCTGCACCA  
TGGCCCAGGCCCTGGGATTTTGAACAGCTCCGCAGGTGAATGAAAGGAACATGGAGCTGATCCAGGACATCTCTC  
GCCCCGCACTGGAGTACGTGAAGGGGTCCCGCTCATCAAGTACTTTGCAGAGGCACTGGGGCCCCCTGCAGAGCT  
TCCAGGCCCGGCCTGATGACCTGCTCATCAGCACCTACCCCAAGTCCGGCACCACCTGGGTGAGCCAGATTCTGG  
ACATGATCTACCAGGGCGGTGACCTGGAAAAGTGTACCGAGCTCCCATCTTCATGCGGGTGCCCTTCCTTGAGT  
TCAAAGTCCCAGGGATTCCCTCAGGGATGGAGACTCTGAAAAACACACCAGCCCCACGACTCCTGAAGACACACC  
TGCCCTGGCTCTGCTCCCCCAGACTCTGTTGGATCAGAAGGTCAAGGTGGTCTATGTTGCCCGCAACGCAAAGG  
ATGTGGCGGTTTCCTACTACCACTTCTACCACATGGCCAAAGTGTACCCTCACCTGGGACCTGGGAAAGCTTCC  
TGGAGAAGTTCATGGCTGGAGAAGTGTCTATGGGTCCTGGTACCAGCACGTGCAAGAGTGGTGGGAGCTGAGCC  
GCACCCACCCTGTTCTCTACCTCTTCTATGAAGACATGAAGGAGAACCCCAAAAGGGAGATTCAAAAGATCCTGG  
AGTTTGTGGGGCGCTCCCTGCCAGAGGAGACTGTGGACCTCATGGTTGAGCACACGTCGTTCAAGGAGATGAAGA  
AGAACCCTATGACCAACTACACCACCGTCCGCCGGGAGTTCATGGACCACAGCATCTCCCCCTTCATGAGGAAAG  
GCATGGCTGGGGACTGGAAGACCACCTTCACCGTGGCGCAGAATGAGCGCTTCGATGCGGACTATGCGGAGAAGA  
TGGCAGGCTGCAGCCTCAGCTTCCGCTCTGAGCTGTGAGGAGGGGTTCTGGAGTCACTGCAGAGGGAGTGTGCGA  
ATCAAGCCTGACCAAGAGGCTCCAGAATAAAGTATGATTTGTGTTT

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**FIGURE 1200**

MELIQDISRPPLEYVKGVPLIKYFAEALGPLQSFQARPDDLSTYPKSGTTWVSQILDMIYQGGDLEKCHRAPI  
FMRVPFLEFKVPGIPSGMETLKNTAPARLLKTHLPLALLPQTLLDQKVKVYVARNAKDVAVSYYHFYHMAKVYP  
HPGTWESFLEKFMAGEVSYGSWYQHVQEWELSRTHPVLYLFYEDMKENPKREIQKILEFVGRSLPEETVDLMVE  
HTSFKEMKKNPMTNYTTVRREFMDHSISPFRKGMAGDWKTTFTVAQNERFDADYAEKMAGCSLSFRSEL

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**FIGURE 1201**

GGGATACCTTGTTTATAGTACCTTCTCTTTGCCAGTCCATCTTCAAATTGGAATTATAGAAAAGTAGAGGGAGGGA  
TAGTCTACCGTCTCTCACTGGATTGGTGCCACCTAAAAACATTGTT**ATG**CTGGAAATGCTAGAATATAATCACTAT  
CAGGTGCAGACCCACCTCGAAAACCCCAACCAAGTACCACATACAGCAAGCCCAACGGCAGCAGGTAAAGCAGTAC  
CTTTCTACCACTTTAGCAAATAAACATGCCAACCAAGTCCTGAGCTTGCCATGTCCAAACCAGCCTGGCGATCAT  
GTCATGCCACCGGTGCCGGGGAGCAGCGCACCCAAACAGCCCCATGGCTATGCTTACGCTTAACCTCCAACCTGTGAA  
AAAGAGGGATTTTATAAGTTTGAAGAGCAAAACAGGGCAGAGAGCGAGTGCCAGGCATGAACACACATTCACGA  
GCGTCTCTGTATGCAGATGGATGATGTAATCGATGACATCATTAGCCTAGAATCAAGTTATAATGAGGAAATCTTG  
GGCTTGATGGATCCTGCTTTGCAAATGGCAAATACGTTGCCTGTCTCGGGAACTTGATTGATCTTTATGGAAAC  
CAAGGTCTGCCCCACCAGGCCTCACCATCAGCAACTCCTGTCCAGCCAACCTTCCCAACATAAAAAGGGAGCTC  
ACAGCGTGTATTTTTCCACAGAGTCTGAAGCAAGAGCACTGGCCAAAGAGAGGCAGAAAAAGGACAATCACAAC  
CTGATTGAACGAAGAAGAAGATTTAACATAAATGACCGCATTAAGAAGCTAGGTACTTTGATTCCCAAGTCAAAT  
GATCCAGACATGCGCTGGAACAAGGGAACCATCTTAAAGCATCCGTGGACTATATCCGAAAGTTGCAACGAGAA  
CAGCAACGCGCAAAAGAACTTGAAAACCGACAGAAGAACTGGAGCACGCCAACCAGGCATTTGTTGCTCAGAATA  
CAGGAACCTGAAATGCAGGCTCGAGCTCATGGACTTTCCTTATTCCATCCACGGGTCTCTGCTCTCCAGATTTG  
GTGAATCGGATCATCAAGCAAGAACCCGTTCTTGAGAACTGCAGCCAAGACCTCCTTCAGCATCATGCAGACCTA  
ACCTGTACAACAACCTCTCGATCTCACGGATGGCACCATCACCTTCAACAACAACCTCGGAACTGGGACTGAGGCC  
AACCAAGCCTATAGTGTCCCCACAAAAATGGGATCCAAACTGGAAGACATCCTGATGGACGACACCCTTTCTCCC  
GTCGGTGTCACTGATCCACTCCTTTCCTCAGTGTCCCCCGAGCTTCCAAAACAAGCAGCCGGAGGAGCAGTATG  
AGCATGGAAGAGACGGAGCACACTTGTT**TAG**CGAATCCTCCCTGCACTGCATTTCGCACAAACTGCTTCCCTTTCTTG  
ATTCTGATATTTAATAACTTACCTGAAGGGGTTTTCTTGATAATTTTCCTTTAATATGAAATTTTTTTTCATGCT  
TTATCAATAGCCCAGGATATATTTTATTTTTAGAAATTTTGTAACAGACTTGTATATTCTATTTTACAACCTACA  
AATGCCTCCAAAGTATTGTACAAATAAGTGTGCAGTATCTGTGAACTGAATTCACCACAGACTTTAGCTTTCTGA  
GCAAGAGGATTTTGCGTCAGAGAAATGTCTGTCCATTTTTATTTCAGGGGAACTTGATTTGAGATTTTTATGCCT  
GTGACTTCCTTGGAATCAAATGTAAAGTTTAATTGAAAGAATGTAAAGCAACCCCCCAAAA

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**FIGURE 1202**

MLEMLEYNHYQVQTHLENPTKYHIQQAQRQQVKQYLSTTLANKHANQVLSLPCPNQPGDHVMPPVPGSSAPNSPM  
AMLTLSNCEKEGFYKFEEQNRAESECPCGMNTHSRASCMQMDVIDDIISLESSYNEEILGLMDPALQMANTLPV  
SGNLIDLYGNQGLPPPGLTISNSCPANLPNIKRELTACIFPTESEARALAKERQKKDNHNLIERRRRFNINDRIK  
ELGTLIPKSNDPDMRWNGTILKASVDYIRKLQREQQRAKELENRQKKLEHANRHLLLRIQELEMQARAHGLSLI  
PSTGLCSPDLVNRIIKQEPVLENCSDLLQHHADLTCTTTLDLTDGTITFNNNLGTGTEANQAYSVP TKMGSKLE  
DILMDDTLSPVGVDPLLSVSPGASKTSSRRSSMSMEETEHTC

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**FIGURE 1203A**

GGCGGCTCGGGACGGAGGACGCGCTAGTGTGAGTGCGGGCTTCTAGAACTACACCGACCCCTCGTGTCTCCCTTC  
ATCCTGCGGGGCTGGCTGGAGCGGCCGCTCCGGTGCTGTCCAGCAGCCATAGGGAGCCGCACGGGGAGCGGGAAA  
GCGGTGCGCGCCCCAGGCGGGGCGGCCGGGATGGAGCGGGGCCGCGAGCCTGTGGGGAAGGGGCTGTGGCGGCGC  
CTCGAGCGGCTGCAGGTTCTTCTGTGTGGCAGTTCAGAAATGATGGATCAAGCTAGATCAGCATTCTCTAACTTGT  
TTGGTGGAGAACCATTGTTCATATACCCGGTTCAGCCTGGCTCGGCAAGTAGATGGCGATAACAGTCATGTGGAGA  
TGAAACTTGCTGTAGATGAAGAAGAAAATGCTGACAAATAACACAAAGGCCAATGTCACAAAACCAAAAAGGTGTA  
GTGGAAGTATCTGCTATGGGACTATTGCTGTGATCGTCTTTTTCTTGATTGGATTTATGATTGGCTACTTGGGCT  
ATTGTAAAGGGGTAGAACCAAAAACCTGAGTGTGAGAGACTGGCAGGAACCGAGTCTCCAGTGAGGGAGGAGCCAG  
GAGAGGACTTCCCTGCAGCACGTCGCTTATATTGGGATGACCTGAAGAGAAAGTTGTCGGAGAAACTGGACAGCA  
CAGACTTCACCAGCACCATCAAGCTGCTGAATGAAAATTCATATGTCCCTCGTGAGGCTGGATCTCAAAAAGATG  
AAAATCTTGCGTTGTATGTTGAAAATCAATTTTCGTGAATTTAACTCAGCAAAGTCTGGCGTGATCAACATTTTG  
TTAAGATTTCAGGTCAAAGACAGCGCTCAAACTCGGTGATCATAGTTGATAAGAACGGTAGACTTGTTTACCTGG  
TGGAGAATCCTGGGGGTTATGTGGCGTATAGTAAGGCTGCAACAGTTACTGGTAACTGGTCCATGCTAATTTTG  
GTACTAAAAAAGATTTTGAGGATTTATACACTCCTGTGAATGGATCTATAGTGATTGTCAGAGCAGGGAAAAATCA  
CCTTTCAGAAAAGGTTGCAAATGCTGAAAGCTTAAATGCAATTGGTGTGTTGATATACATGGACCAGACTAAAT  
TTCCCATTTGTTAACGCAGAACTTTTATTCTTTGGACATGCTCATCTGGGGACAGGTGACCCTTACACACCTGGAT  
TCCCTTCTTCAATCACACTCAGTTTCCACCATCTCGGTATCAGGATTGCCTAATATACCTGTCCAGACAATCT  
CCAGAGCTGCTGCAGAAAAGCTGTTTGGGAATATGGAAGGAGACTGTCCCTCTGACTGGAAAACAGACTCTACAT  
GTAGGATGGTAACCTCAGAAAGCAAGAATGTGAAGCTCACTGTGAGCAATGTGCTGAAAGAGATAAAAAATCTTA  
ACATCTTTGGAGTTATTAAAGGCTTTGTAGAACCAGATCACTATGTTGTAGTTGGGGCCAGAGAGATGCATGGG  
GCCCTGGAGCTGCAAAATCCGGTGTAGGCACAGCTCTCCTATTGAACTTGCCCAGATGTTCTCAGATATGGTCT  
TAAAAGATGGGTTTCAGCCCAGCAGAAGCATTATCTTTGCCAGTTGGAGTGCTGGAGACTTTGGATCGGTTGGTG  
CCACTGAATGGCTAGAGGGATACCTTTTCGTCCCTGCATTTAAAGGCTTTCACTTATATTAATCTGGATAAAGCGG  
TTCTTGGTACCAGCAACTTCAAGGTTTCTGCCAGCCCACTGTTGTATACGCTTATTGAGAAAACAATGCAAAATG  
TGAAGCATCCGGTTACTGGGCAATTTCTATATCAGGACAGCAACTGGGCCAGCAAAGTTGAGAAACTCACTTTAG  
ACAATGCTGCTTTCCCTTTCTTGCATATTCTGGAATCCAGCAGTTTCTTTCTGTTTTTTCGAGGACACAGATT  
ATCCTTATTTGGGTACCACCATGGACACCTATAAGGAACTGATTGAGAGGATTCCCTGAGTTGAACAAAGTGCCAC  
GAGCAGCTGCAGAGGTCGCTGGTCAGTTTCGTGATTAACTAACCCTATGATGTTGAATTGAACCTGGACTATGAGA  
GGTACAACAGCCAACTGCTTTTCAATTTGTGAGGGATCTGAACCAATACAGAGCAGACATAAAGGAAATGGGCCCTGA  
GTTTACAGTGGCTGTATTCTGCTCGTGAGACTTCTTCCGTGCTACTTCCAGACTAACAACAGATTTTCGGGAATG  
CTGAGAAAACAGACAGATTTGTTCATGAAGAACTCAATGATCGTGTGATGAGAGTGAGATCACTTCTCTCTC  
CCTACGTATCTCCAAAAGAGTCTCCTTTCCGACATGTCTTCTGGGGCTCCGGCTCTCACACGCTGCCAGCTTTAC  
TGGAGAACTTGAACTGCGTAAACAAAATAACGGTGCTTTTAATGAAACGCTGTTTCAAGAACAGTTGGCTCTAG  
CTACTTGGACTATTTCAGGGAGCTGCAAATGCCCTCTCTGGTGACGTTTGGGACATTGACAATGAGTTTTTAAATGT  
GATACCCATAGCTTCCATGAGAACAGCAGGGTAGTCTGGTTTCTAGACTTGTGCTGATCGTGCTAAATTTTCAGT  
AGGGCTACAAAACCTGATGTTAAAATTCCATCCCATCATCTTGGTACTACTAGATGTCTTTAGGCAGCAGCTTTT  
AATACAGGGTAGATAACCTGTACTTCAAGTTAAAGTGAATAACCACTTAAAAATGTCCATGATGGAATATTCCC  
CTATCTCTAGAAATTTTAAGTGCTTTGTAATGGGAACTGCCTCTTCTCTGTTGTTGTTAATGAAAATGTCAGAAAC  
CAGTTATGTGAATGATCTCTCTGAATCCTAAGGGCTGGTCTCTGCTGAAGGTTGTAAGTGTTTCGCTTACTTTGA  
GTGATCCTCCAACCTCATTTGATGCTAAATAGGAGATACCAGGTTGAAAGACCTCTCCAAATGAGATCTAAGCCT  
TTCCATAAGGAATGTAGCAGGTTTCTCATTCTCTGAAAGAAAACAGTTAACTTTTCAAGAGATGGGCTTGTTTTC  
TTGCCAATGAGGTCTGAAATGGAGGTCCTTCTGCTGGATAAAAAATGAGGTTCAACTGTTGATTGCAGGAATAAGGC  
CTTAATATGTTAACCTCAGTGTCATTTATGAAAAGAGGGGACCAGAAAGCCAAAGACTTAGTATATTTTCTTTTCC  
TCTGTCCCTTCCCCCATAAGCCTCCATTTAGTTCTTTGTTATTTTTGTTTCTTCCAAAGCACATTGAAAGAGAAC  
CAGTTTCAGGTGTTTAGTTGCAGACTCAGTTTGTGAGACTTTAAAGAATAATATGCTGCCAAATTTTGGCCAAAG  
TGTTAATCTTAGGGGAGAGCTTTCTGTCTTTTGGCACTGAGATATTTATTGTTTATTTATCAGTGACAGAGTTC  
ACTATAAATGGTGTTTTTTTTAATAGAATATAATTATCGGAAGCAGTGCCTTCCATAATTATGACAGTTATACTGT  
CGGTTTTTTTTTAAATAAAAGCAGCATCTGCTAATAAAACCAACAGATACTGGAAGTTTGCATTTATGGTCAAC

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**FIGURE 1203B**

ACTTAAGGGTTTTAGAAAACAGCCGTCAGCCAAATGTAATTGAATAAAGTTGAAGCTAAGATTTAGAGATGAATT  
AAATTTAATTAGGGGTTGCTAAGAAGCGAGCACTGACCAGATAAGAATGCTGGTTTTCTAAATGCAGTGAATTG  
TGACCAAGTTATAAATCAATGTCACTTAAAGGCTGTGGTAGTACTCCTGCAAAATTTTATAGCTCAGTTTATCCA  
AGGTGTAACCTCTAATTCCCATTTGCAAAATTTCCAGTACCTTTGTCACAATCCTAACACATTATCGGGAGCAGTG  
TCTTCCATAATGTATAAAGAACAAGGTAGTTTTTACCTACCACAGTGTCTGTATCGGAGACAGTGATCTCCATAT  
GTTACACTAAGGGTGTAAGTAATTATCGGGAACAGTGTTTTCCATAATTTTCTTCATGCAATGACATCTTCAAAG  
CTTGAAGATCGTTAGTATCTAACATGTATCCCAACTCCTATAATTCCCTATCTTTTAGTTTTAGTTGCAGAAACA  
TTTTGTGGTCATTAAAGCATTGGGTGGGTAAATTCAACCACTGTAAAATGAAATTACTACAAAATTTGAAATTTAG  
CTTGGGTTTTTGTACCTTTATGGTTTCTCCAGGTCCTCTACTTAATGAGATAGCAGCATACATTTATAATGTTT  
GCTATTGACAAGTCATTTTAATTTATCACATTATTTGCATGTTACCTCCTATAAACTTAGTGCGGACAAGTTTTA  
ATCCAGAATTGACCTTTTGACTTAAAGCAGAGGGACTTTGTATAGAAGGTTTGGGGGCTGTGGGGAAGGAGAGTC  
CCCTGAAGGTCTGACACGTCTGCCTACCCATTCGTGGTGATCAATTAAATGTAGGTATGAATAAGTTCGAAGCTC  
CGTGAGTGAACCATCATATAAACGTGTAGTACAGCTGTTTGTATAGGGCAGTTGGAAACGGCCTCCTAGGGAAA  
AGTTCATAGGGTCTCTTCAGGTTCTTAGTGTCACCTACCTAGATTTACAGCCTCACTTGAATGTGTCACTACTCA  
CAGTCTCTTTAATCTTCAGTTTTATCTTTAATCTCCTCTTTTATCTTGGACTGACATTTAGCGTAGCTAAGTGAA  
AAGGTCATAGCTGAGATTCCTGGTTCGGGTGTTACGCACACGTACTTAAATGAAAGCATGTGGCATGTTTCATCGT  
ATAACACAATATGAATACAGGGCATGCATTTTGCAGCAGTGAGTCTCTTCAGAAAACCCCTTTTCTACAGTTAGGG  
TTGAGTTACTTCCTATCAAGCCAGTACGTGCTAACAGGCTCAATATTCCTGAATGAAATATCAGACTAGTGACAA  
GCTCCTGGTCTTGAGATGTCTTCTCGTTAAGGAGTAGGGCCTTTTGGAGGTAAAGGTATA

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**FIGURE 1204**

MMDQARSASFNLFGGEPLSYTRFSLARQVDGDN SHVEMKLAVDEEENADNNTKANVT KPKRCSGSICYGTIAVIV  
FFLIGFMIGYLG YCKGVEPKTECERLAGTESPVREEPGEDFPAARRLYWDDLKRKLSEKLDSTDF TSTIKLLNEN  
SYVPREAGSQKD ENLALYVENQFREFKLSKVWRDQH FVKIQVKDSAQNSV IIVDKNGRLVYLVENPGGYVAYS KA  
ATVTGKLVHANFGTKKDFEDLYTPVNGSIVIVRAGKITFAEKVANAESLNAIGVLIYMDQTKFPIVNAELSFFGH  
AHLGTGDPYTPGFPSFNHTQFPSPRSSGLPNIPVQTISRAAA EKLFGNMEGDCPSDWKTDSTCRMVTS ESKNVKL  
TVSNVLKEIKILNIFGVIKGFVEPDHYVVVGAQRDAWGPGA AKSGVGTALLLKL AQMFSDMV LKDG FQPSRSIIF  
ASWSAGDFG SVGATEWLEGYLSSLHLKAFTYINLDKAVLGTSNFKVSASPLLYTLIEKTMQNVKHPVTGQFLYQD  
SNWASKVEKLTLDNAAFPFLAYSGIPAVSFCFCEDTDYPYLGTTMDTYKELIERIPELNKVARAAAEVAGQFVIK  
LTHDVELNLDYERYNSQLLSFVRDLNQYRADIKEMGLSLQWLYSARGDFFRATSRLTTDFGNAEKTD RFVMKKLN  
DRVMRVEYHFLSPYVSPKESPFRRHVFWGSGSHTLPALLENLKL RKQNNGAFNETLFRNQ LALATWTIQGAANALS  
GDVWDIDNEF



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**FIGURE 1205**

TTGAACTCCTGGAGCCCGTCACCCAGGAAACCGGCCGCAATCGCCGGCCGACCTGAAGCTGGTTTC**ATGG**CAGCC  
TCAAAGAAGGCAGTTTTTGGGGCCATTGGTGGGGGCGGTGGACCAGGGCACCAGTTTCGACGCGCTTTTTTGGTTTTTC  
AATTCAAAAACAGCTGAACTACTTAGTCATCATCAAGTAGAAATAAAACAAGAGTTCCCAAGAGAAGGATGGGTG  
GAACAGGACCCTAAGGAAATTCTACATTCTGTCTATGAGTGTATAGAGAAAACATGTGAGAAAACCTTGGACAGCTC  
AATATTGATATTTCCAACATAAAAGCTATTGGTGTCTAGCAACCAGAGGGAAACCACTGTAGTCTGGGACAAGATA  
ACTGGAGAGCCTCTCTACAATGCTGTGGTGTGGCTTGATCTAAGAACCAGTCTACCGTTGAGAGTCTTAGTAAA  
AGAATTCCAGGAAATAATAACTTTGTCAAGTCCAAGACAGGCCTTCCACTTAGCACTTACTTCAGTGCAGTGAAA  
CTTCGTTGGCTCCTTGACAATGTGAGAAAAGTTCAAAAGGCCGTTGAAGAAAACGAGCTCTTTTTTGGGACTATT  
GATTCATGGCTTATTTGGAGTTTGACAGGAGGAGTCAATGGAGGTGTCCACTGTACAGATGTAACAAATGCAAGT  
AGGACTATGCTTTTCAACATTCACTCTTTGGAATGGGATAAACAACCTCTGCGAATTTTTTGGAAATCCAATGGAA  
ATTCTTCCAAATGTCCGGAGTTCTTCTGAGATCTATGGCCTAATGAAAGCTGGGGCCTTGGAAGGTGTGCCAATA  
TCTGGGTGTTTAGGGGACCAGTCTGCTGCATTGGTGGGACAAATGTGCTTCCAGATTGGACAAGCCAAAAATACG  
TATGGAACAGGATGTTTCTTACTATGTAATACAGGCCATAAGTGTGTATTTTCTGATCATGGCCTTCTCACCACA  
GTGGCTTACAACTTGGCAGAGACAAACCAGTATATTATGCTTTGGAAGGTTCTGTAGCTATAGCTGGTGCTGTT  
ATTGCTGGCTAAGAGACAATCTTGGAATTATAAAGACCTCAGAAGAAATTGAAAACTTGCTAAAGAAGTAGGT  
ACTTCTTATGGCTGCTACTTCGTCCCAGCATTTTCGGGGTTATATGCACCTTATTGGGAGCCCAGCGCAAGAGGG  
ATAATCTGTGGACTCACTCAGTTCACCAATAAATGCCATATTGCTTTTGCTGCATTAGAAGCTGTTTGTTCCTCAA  
ACTCGAGAGATTTTGATGCCATGAATCGAGACTGTGGAATTCCTCAGTCATTTGCAGGTAGATGGAGGAATG  
ACCAGCAACAAAATTCTTATGCAGCTACAAGCAGACATTCTGTATATACCAGTAGTGAAGCCCTCAATGCCCCGAA  
ACCACTGCACTGGGTGCGGCTATGGCGGCAGGGGCTGCAGAAGGAGTCGGCGTATGGAGTCTCGAACCCGAGGAT  
TTGTCTGCCGTCACGATGGAGCGGTTTGAACCTCAGATTAATGCGGAGGAAAGTGAAATTCGTTATTCTACATGG  
AAGAAAAGCTGTGATGAAGTCAATGGGTGGGTTACAACCTCAATCTCCAGAAAGTGGTATTCCA**TAAA**ACCTACCA  
ACTCATGGATTCCCAAGATGTGAGCTTTTTACATAATGAAAGAACCAGCAATTCTGTCTCTTAATGCAATGACA  
CTATTCATAGACTTTGATTTTTATTTATAAGCCACTTGCTGCATGACCCTCCAAGTAGACCTGTGGCTTAAAAATAA  
AGAAAAATGCAGCAAAAAGAATGCTATAGAAATATTTGGTGGTTTTTTTTTTTTTAAACATCCACAGTTAAGGTTG  
GGCCAGCTACCTTTGGGGGTGACCCCCCCCATTGCCATAACATCCTGCTCCATTCCCTCTAAGATGTAGGAAGAA  
TTCGGATCCTTACCATTGGAATCTTCCATCGAACATACTCAAACACTTTTGGGCCAGGATTTGAGTCTCTGCATG  
ACATATACTTGATTAAAAGGTTATTACTAACCTGTTAAAAATC

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**FIGURE 1206**

MAASKKAVLGPLVGAVDQGTSSSTRFLVFNSKTAELLSHHQVEIKQEFPREGWVEQDPKEILHSVYECIEKTCEKL  
GQLNIDISNIKAIGVSNQRETTVVWDKITGEPLYNAVWLDLRTQSTVESLSKRIPGNNNFVKSKTGLPLSTYFS  
AVKLRWLLDNVRKVQKAVEEKRALFGTIDSWLIWSLTGGVNGGVHCTDVTNASRTMLFNIHSLEWDKQLCEFFGI  
PMEILPNVRSSSEIYGLMKAGALEGVPI SGCLGDQSAALVGQMCFQIGQAKNTYGTGCFLLCNTGHKCVFSDHGL  
LTTVAYKLG RDKP VYYALEGSVAIAGAVIRWLRDNLGI IKTSEEIEKLAKEVGTSYGCYFVPAFSGLYAPYWEPS  
ARGIICGLTQFTNKCHIAFAALEAVCFQTREILDAMNRDCGIPLSHLQVDGGMTSNKILMQLQADILYIPVVKPS  
MPETTALGAAMAAGAAEGVGVSLEPEDLSAVTMERFEPQINAESEIRYSTWKKAVMKSMGWVTTQSPESGIP

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**FIGURE 1207**

CACAGCCGGCCGACACCACACCAGCCGGGGAGCCGCCGCCGCCGCCACCTCTGAGCAGCCGGCTGGGAGCGA  
GAGCCGACAGCTAGTCTGCAAGCCACCGCTGTGCCCATGGGGAGCCGCGTCTCGCGGGAAGACTTCGAGTGGGTC  
TACACCGACCAGCCGCACGCCGACCGGCGCCGGGAGATCCTGGCAAAGTATCCAGAGATAAAGTCCTTGATGAAA  
CCTGATCCCAATTTGATATGGATTATAATTATGATGGTTCTCACCAGTTGGGTGCATTTTACATAGTAAAGAC  
TTGGACTGGAAATGGGTCATATTTGGGGCCTATGCGTTTGGCAGTTGCATTAACCACTCAATGACTCTGGCTATT  
CATGAGATTGCCACAATGCTGCCTTTGGCAACTGCAAAGCAATGTGAATCGCTGGTTTGAATGTTTGCTAAT  
CTTCCTATTGGGATTCCATATTCAATTTCTTTAAGAGGTATCACATGGATCATCATCGGTACCTTGGAGCTGAT  
GGCGTCGATGTAGATATTCCTACCGATTTTGAGGGCTGGTTCTTCTGTACCGCTTTCAGAAAGTTTATATGGGT  
ATTCTTCAGCCTCTCTTTTATGCCTTTGACCTCTGTTTCATCAACCCCAAACCAATTACGTATCTGGAAGTTATC  
AATACCGTGGCACAGGTCACTTTTGACATTTTAATTTATTACTTTTTGGGAATTAATCCTTAGTCTACATGTTG  
GCAGCATCTTTACTTGGCCTGGGTTTGACCCAATTTCTGGACATTTTATAGCTGAGCATTACATGTTCTTAAAG  
GGTCATGAAACTTACTCATATTATGGGCCTCTGAATTTACTTACCTTCAATGTGGGTTATCATAATGAACATCAT  
GATTTCCCCAACATTCTGGAATAAGTCTTCCACTGGTGAGGAAAATAGCAGCTGAATACTATGACAACCTCCCT  
CACTACAATTCCTGGATAAAAGTACTGTATGATTTTGTGATGGATGATACAATAAGTCCCTACTCAAGAATGAAG  
AGGCACCAAAAAGGAGAGATGGTGCTGGAGTAAATATCATTAGTGCCAAAGGGATTCTTCTCCAAAACCTTTAGAT  
GATAAAATGGAATTTTTGCAATTATTAACTTGAGACCAGTGATGCTCAGAAGCTCCCTGGCACAATTTAGAGT  
AAGAGCTCGGTGATACCAAGAAGTGAATCTGGCTTTTAAACAGTCAGCCTGACTCTGTACTGCTCAGTTTCACTC  
ACAGGAAACTTGTGACTTGTGATTATCGTCATTGAGGATGTTTCACTCATGTCTGTCAATTTTATAAGCATATCA  
TTTAAAAAGCTTCTAAAAAGCTATTTGCCAGGCACGGTGGCTCATGCCTATAATCCCAGCACTTTGGGAGGCCA  
AGGTGGGTGGATCACCTGAGGTCAGGAGTTTCGAGACCAGCCTGGCCAACACGGTGAAACCCCATCTCTACTAAAA  
ATGCAAAAATTAGCCGGGCGTGGCGGCACATGCCTGTAATCCCAGCTACATGGGAGGCTGAGGTGGGAGAATTGC  
TTGAACCCAGGAGGCGGAGGCAGAGGCTGCAGTGACCCAAGATTGTGCCACTGCACTCCACCCTGGGCAACAGAG  
CAAGACCCCATCTCAAAAATAAATAAATATATATAAAAAATAAAAAGCTATTTCTAGTTTATTTCACTATAAAGT  
TTTGCTTTATTAAAAAGCTAATAAACAGCTATTAATCACAGTGTATTAGTATTTGTTACATTTTTGTATTTCACT  
ATCTTTATACTATATAATATGGTAACCTGGGTACCGGGGGAACTTTAAATTTTCATCTCAAAAATAATTTTAAA  
AAGCCTGAGGTATGATATAGCATAAAAGATTGAGATGAAAAATATTTCCCTGTAAGCTGAATTACTCATTTAAA  
AATTTTAACTTCTATATGGGACCCGAATTAGACACTGCTGAATCCTGTACAGCCTTACTCATAAATAAAGTACTT  
ACTGAATTTCCACCATTCAAAAAAAAAAAAAA

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**FIGURE 1208**

MGSRVSREDFEWVYTDQPHADRRREILAKYPEIKSLMKPDPNLIWIIIMMVLTLQGA FYIVKDLDWKWVIFGAYA  
FGSCINHSMTLAIHEIAHNAAF GNCKAMWNRWFGMFANLP IGIPIYSISFKRYHMDHHR YLGADGVDVDIPTDFEG  
WFFCTAFRKFIWVILQPLFYAFRPLFINPKPITYLEVINTVAQVTFDILIIYYFLGIKSLVYMLAASLLGLGLHPI  
SGHFIAEHYMF LKGHETYSYYGPLNLLTFNVGYHNEHHD FPNIPGKSLPLVRKIAAEYYDNLP HYNLSWIKVLYDF  
VMDDTISPYSRMKRHQKGEMVLE

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**FIGURE 1209**

CTCCTCTAGGCCGCCGGCCGCGAAGCGCTGAGTCACGGTGAGGCGACTGGACCCACACTCTCTTAACCTGCCCTC  
CCTGCACTCGCTCCCGGCGGCTCTTCGCGTCACCCCGCCGCTAAGGCTCCAGGTGCCGCTACCGCAGCGTGAGT  
ACCTGGGGCTCCTGCAGGGGTCCACTAGCCCTCCATCCTCTACAGCTCAGCATCAGAACACTCTCTTTTtagact  
CCGATATGGGGGTCTCTCCAAGAAAGTTACTCTCTCAGTGCTCAGCCGGGAGCAGTCGGAAGGGGTTGGAGCGAGGG  
TCCGGAGAAGCATTGGCAGACCCGAGTTAAAAAATCTGGATCCGTTTTTACTGTTTGATGAATTTAAAGGAGGTA  
GACCAGGAGGATTTCTGATCATCCACATCGAGGTTTTGAAACAGTATCCTACCTCCTGGAAGGGGGCAGCATGG  
CCCATGAAGACTTCTGTGGACACACTGGTAAATGAACCCAGGAGATTTGCAGTGGATGACTGCGGGCCGGGGCA  
TTCTGCACGCTGAGATGCCTTGCTCAGAGGAGCCAGCCCATGGCCTACAACCTGTGGGTTAATTTGAGGAGCTCAG  
AGAAGATGGTGGAGCCTCAGTACCAGGAAGTGAAGAAATCCCTAAACCCAGTAAGGATGGTGTGACAG  
TTGCTGTCATTTCTGGAGAAGCCCTGGGAATAAAGTCCAAGGTTTACACTCGCACACCAACCTTATATTTGGACT  
TCAAATTGGACCCAGGAGCCAAACATTCCCAACCTATCCCTAAAGGGTGGACAAGCTTCATTTACACGATATCTG  
GAGATGTGTATATTGGGCCCCGATGATGCACAACAAAAAATAGAACCTCATCACACAGCAGTGCTTGGAGAAGGTG  
ACAGTGTCCAGGTGGAGAACAAGGATCCCAAGAGAAGCCACTTTGTCTTAATTGCTGGGGAGCCATTAAGAGAAC  
CAGTTATCCAACATGGTCCATTTGTGATGAACACCAATGAAGAGATTTCTCAAGCTATTCTTGATTTCAGAAACG  
CAAAAAATGGGTTTGAAAGGGCCAAAACCTGGAAATCAAAGATTGGGAACTAGTGGAAAGCGGAAGAGCAGGTCT  
TGATGTGTCCTAGAATTTTGCCATTTCTGAGATTGAGCCATTGAAGGCATTCCATTTCTAAAGCTTATTTAGCCG  
GTGCTTCTAAAGAATTCCACACTAACGTGATTAACATGGTTTTTGTAAACAATAAATGTAGGATATTTCTTGGCACA  
TGCAAATAAACCTAATCATTGTTTCTTTAAAAAAAAAAAAAAAAA

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**FIGURE 1210**

MGSSKKVTL SVLSREQSEGVGARVRRSIGRPELKNLDPFLLFDEFKGGRPGGFPDHPHRGFETVSYLLEGGSM AH  
EDFCGHTGKMNP GD LQWMTAGRGILHAEMPCSEEP AHGLQLWVNLR SSEKMVEPQYQELKSEEIPKPSKDGVTV A  
VISGEALGIKSKVYTRTPTLYLDFKLDPGAKHSQPIPKGWT SFYITISGDVYIGPDDAQQKIEPHHTAVLGE GDS  
VQVENKDPKRSHFVLIAGEPLREPVIQHGP FVMNTNEEISQA ILDFRNAKNGFERAKTWKSKIGN

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**FIGURE 1211**

AATTCCGGAATTCCCCGGCCTGGCCAGGGCGGAGCGGCGCCCAGTAGGGACCCATTTCATTGTGCCGGCGCCTCAC  
TGGGCACGGGGCCCAAGCTGACGGCGTGCACGGGAGCCTGCGGAGCCTGGGTGGGAAGAACAGGCCCCCTGGAGGG  
CACTTGACCTTAAGCCTCTTTTCCTCCGCAGAGAGGAAGCGGGAGAGGAGCCACGTCGCCTGTCACCCAATATC  
TCCAGCCGCGCAGTCCCGAAGAGTGTAAGATGTTTCGCCTGCGCCAAGCTCGCCTGCACCCCTCTCTGATCCGAG  
CTGGATCCAGAGTTGCATACAGACCAATTTCTGCATCAGTGTTATCTCGACCAGAGGCTAGTAGGACTGGAGAGG  
GCTCTACGGTATTTAATGGGGCCAGAATGGTGTGTCTCAGCTAATCCAAAGGGAGTTTCAGACCAGTGCAATCA  
GCAGAGACATTGATACTGCTGCCAATTTATTGGTGCAGGTGCTGCAACAGTAGGAGTGGCTGGTTCTGGTGCTG  
GTATTGGAACAGTCTTTGGCAGCCTTATCATTGGTTATGCCAGAAACCCTTCGCTGAAGCAGCAGCTGTTCTCAT  
ATGCTATCCTGGGATTTGCCTTGTCTGAAGCTATGGGTCTCTTTTGTTTGATGGTTGCTTTCTTGATTTTGTTG  
CCATGTAACAAATTACTGCTTGACATGTTGGCATTTCATATTAATTACGGATGTAATTCTGTGTATCTTACTGTGA  
CTCCGAAAACGTAGTATTGGTGTGTCATGGGAATGTACGTTATTTCCAAAGTCATTTCAATTAAGATGAAAACTTT

A

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**FIGURE 1212**

MFACAKLACTPSLIRAGSRVAYRPISASVLSRPEASRTGEGSTVFNGAQNQVSQLIQREFQTS AISRDIDTAAKF  
IGAGAATVGVAGSGAGIGTVFGSLIIGYARNPSLKQQLFSYAILGFALSEAMGLFCLMVAFLILFAM



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**FIGURE 1213**

**ATGG**TCAGAAAGCCTGTTGTGTCCACCATCTCCAAAGGAGGTTACCTGCAGGGAAATGTTAACGGGAGGCTGCCT  
TCCCTGGGCAACAAGGAGCCACCTGGGCAGGAGAAAGTGCAGCTGAAGAGGAAAGTCACTTTACTGAGGGGAGTC  
TCCATTATCATTGGCACCATCATTGGAGCAGGAATCTTCATCTCTCCTAAGGGCGTGCTCCAGAACACGGGCAGC  
GTGGGCATGTCTCTGACCATCTGGACGGTGTGTGGGGTCTGTCACTATTTGGAGCTTTGTCTTATGCTGAATTG  
GGAACAACATAAAAGAAATCTGGAGGTCATTACACATATATTTTGGAAAGTCTTTGGTCCATTACCAGCTTTTGTA  
CGAGTCTGGGTGGAACCTCTCATAATACGCCCTGCAGCTACTGCTGTGATATCCCTGGCATTGACGCTACATT  
CTGGAACCATTTTTTATTCAATGTGAAATCCCTGAACTTGCAGTCAAGCTCATTACAGCTGTGGGCATAACTGTA  
GTGATGGTCTTAAATAGCATGAGTGTGAGCTGGAGCGCCCGGATCCAGATTTTCTTAACCTTTTGCAAGCTCACA  
GCAATTCTGATAATTATAGTCCCTGGAGTTATGCAGCTAATTAAAGGTCAAACGCAGAACTTTAAAGACGCGTTT  
TCAGGAAGAGATTCAAGTATTACGCGGTTGCCACTGGCTTTTTATTATGGAATGTATGCATATGCTGGCTGGTTT  
TACCTCAACTTTGTTACTGAAGAAGTAGAAAACCTGAAAAAACCATTTCCCTTGCAATATGTATATCCATGGCC  
ATTGTCACCATTGGCTATGTGCTGACAAATGTGGCCTACTTTACGACCATTAAATGCTGAGGAGCTGCTGCTTTCA  
AATGCAGTGGCAGTGACCTTTTCTGAGCGGCTACTGGGAAATTTCTCATTAGCAGTTCCGATCTTTGTTGCCCTC  
TCCTGCTTTGGCTCCATGAACGGTGGTGTGTTTGTCTGTCTCCAGGTTATTCTATGTTGCGTCTCGAGAGGGTCAC  
CTTCCAGAAATCCTCTCCATGATTATGTCCGCAAGCACACTCCTCTACCAGCTGTTATTGTTTTGCACCCTTTG  
ACAATGATAATGCTCTTCTCTGGAGACCTCGACAGTCTTTTGAATTTCTCAGTTTTGCCAGGTGGCTTTTTATT  
GGGCTGGCAGTTGCTGGGCTGATTTATCTTCGATACAAATGCCAGATATGCATCGTCTTTCAAGGTGCCACTG  
TTCATCCCAGCTTTGTTTTCTTCACATGCCTCTTCATGGTTGCCCTTTCCCTCTATTTCGGACCCATTTAGTACA  
GGGATTGGCTTCGTATCACTCTGACTGGAGTCCCTGCGTATTATCTCTTTATTATATGGGACAAGAAACCCAGG  
TGGTTTAGAATAATGTCAGAGAAAATAACCAGAACATTACAAATAATACTGGAAGTTGTACCAGAAGAAGATAAG  
TTAT**TGAA**CTAATGGACTTGAGATCTTGCCAATCTGCCAAGGGGAGACACAAAATAGGGATTTTTACTTCATTTT  
CTGAAAGCTAGAGAATTACAACCTTTGGTGATAAAACAAAAGGAGTCAGTTATTTTTATTTCATATATTTTAGCATA  
TTCGAACTAATTTCTAAGAAATTTAGTTATAACTCTATGTAGTTATAGAAAGTGAATATGCAGTTATTCTATGAG  
TCGCACAATTTCTTGAGTCTCTGATACCTACCTATTGGGGTTAGGAGAAAAGACTAGACAATTACTATGTGGTCAT  
TCTCTACAACATATGTTAGCACGGCAAAGAACCTTCAAATTTGAAGACTGAGATTTTTCTGTATATATGGGTTTTG  
TAAAGATGGTTTTACACACTACAGATGTCTATACTGTGAAAAGTGTTTTCAATTCGAAAAAAGCATAACATCAT  
GATTATGGCAAAGAGGAGAGAAAGAAATTTATTTTACATTGACATTGCATTGCTTCCCCTTAGATACCAATTTAG  
ATAACAAACACTCATGCTTTAATGGATTATACCCAGAGCACTTTGAACAAAGGTCAGTGGGGATTGTTGAATACA  
TTAAAGAAGAGTTTTCTAGGGGCTACTGTTTATGAGACACATCCAGGAGTTATGTTTAAGTAAAAATCCTTGAGAA  
TTTATTATGTCAGATGTTTTTTCATTCAATTATCAGGAAGTTTTAGTTATCTGTCATTTTTTTTTTTCACATCAGT  
TTGATCAGGAAAGTGTATAACACATCTTAGAGCAAGAGTTAGTTTGGTATTAAATCCTCATTAGAACAACCACCT  
GTTTCACTAATAACTTACCCCTGATGAGTCTATCTAAACATATGCATTTTAAGCCTTCAAATTACATTATCAACA  
TGAGAGAAATAACCAACAAAGAAGATGTTCAAAATAATAGTCCCATATCTGTAATCATATCTACATGCAATGTTA  
GTAATTCTGAAGTTTTTTAAATTTATGGCTATTTTACACGATGATGAATTTTGACAGTTTGTGCATTTTCTTTA  
TACATTTTATATTCTTCTGTTAAATATCTCTTCAGATGAAACTGTCCAGATTAATTAGGAAAAGGCATATATTA  
ACATAAAAAATTGCAAAAGAAATGTCGCTGTAAATAAGATTTACAACTGATGTTTCTAGAAAATTTCCACTTCTAT  
ATCTAGGCTTTGTCTAGTAATTTCCACACCTTAATTATCATTTCAACTTGCAAAAGAGACAACCTGATAAGAAGAAAA  
TTGAAATGAGAACTCTGTGGATAAGTGTTTGTGTTTCAGAAAGATGTTGTTTGGCCAGTATTAGAAAATACTGTGAGC  
CGGGCATGGTGGCTTACATCTGTAATCCCAGCACTTTGGGAGGCTGAGGGGGTGGATCACCTGAGGTGCGGGAGTT  
CTAGACCAGCCTGACCAACATGGAGAAACCCCATCTCTACTAAAAATACAAAATTAGCTGGGCATGGTGGCACAT  
GCTGGTAATCTCAGCTATTGAGGAGGCTGAGGCAGGAGAAATGCTTGAACCCGGGAGGCGGAGGTTGCAGTGAGC  
CAAGATTGCACCACTGTACTCCAGCCTGGGTGACAAAGTCAGACTCCATCTCCAAAAAAAAAAAAAAAAA

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**FIGURE 1214**

MVRKPVVSTISKGGYLQGNVNGRLPSLGNKEPPGQEKVQLKRKVTLLRGVSIIGTIIGAGIFISPKGVLQNTGS  
VGMSLTIWTVCGVLSLFGALSYAELGTTIKKSGGHYTYILEVFGPLPAFVRVWVELLIIRPAATAVISLAFGRYI  
LEPFFIQCEIPELAIKLITAVGITVVMVLNSMSVSWASARIQIFLTFCKLTAILIIIVPGVMQLIKGQTQNFKDAF  
SGRDSSITRLPLAFYYGMYAYAGWFYLNFTVEEVENPEKTIPLAICISMAIVTIGYVLTNVAYFTTINAEELLS  
NAVAVTFSERLLGNFSLAVPIFVALSCFGSMNGGVFAVSRLFYVASREGLHPEILSMIHVRKHTPLPAVIVLHPL  
TMIMLFSGDLDLNLNLSFARWLFIGLAVAGLIYLRKCPDMHRPFKVPLFIPALFSFTCLFMVALSLYSDPFST  
GIGFVITLTGVPAYYLFIIWDKKPRWFRIMSEKITRTLQIILEVVPEEDKL

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**FIGURE 1215**

ACTTTCCTGCCCCCTTCCCCGGCCAAGCCCCAACTCCGGATCTCGCTCTCCACCGGATCTCACCCGCCACACCCGGA  
CAGGCGGCTGGAGGAGGCGGGCGTCTAAAATTCTGGGAAGCAGAACCTGGCCGGAGCCACTAGACAGAGCCGGGC  
CTAGCCCAGAGAC**ATG**GAGAGTTGCTACAACCCAGGTCTGGATGGTATTATTGAATATGATGATTTCAAATTGAA  
CTCCTCCATTGTGGAACCCAAGGAGCCAGCCCCAGAAACAGCTGATGGCCCCCTACCTGGTGATCGTGGAACAGCC  
TAAGCAGAGAGGCTTCCGATTTTCGATATGGCTGTGAAGGCCCTCCCATGGAGGACTGCCCGGTGCCTCCAGTGA  
GAAGGGCCGAAAGACCTATCCCACTGTCAAGATCTGTAACTACGAGGGACCAGCCAAGATCGAGGTGGACCTGGT  
AACACACAGTGACCCACCTCGTGCTCATGCCCACAGTCTGGTGGGCAAGCAATGCTCGGAGCTGGGGATCTGCGC  
CGTTTCTGTGGGGCCCAAGGACATGACTGCCCAATTTAAACAACCTGGGTGTCTGCATGTGACTAAGAAGAACAT  
GATGGGGACTATGATACAAAACCTTCAGAGGCAGCGGCTCCGCTCTAGGCCCCAGGGCCTTACGGAGGCCGAGCA  
GCGGGAGCTGGAGCAAGAGGCCAAAGAAGGTGAAGAAGGTGATGGATCTGAGTATAGTGC GGCTGCGCTTCTCTGC  
CTTCCCTTAGAGCCAGTGATGGCTCCTTCTCCCTGCCCCCTGAAGCCAGTCACCTCCCAGCCCATCCATGATAGCAA  
ATCTCCGGGGGCATCAAACCTGAAGATTTCTCGAATGGACAAGACAGCAGGCTCTGTGCGGGGTGGAGATGAAGT  
TTATCTGCTTTGTGACAAGGTGCAGAAAGATGACATTGAGGTTCTGTTCTATGAGGATGATGAGAATGGATGGCA  
GGCCTTTGGGGACTTCTCTCCACAGATGTGCATAAACAGTATGCCATTGTGTTCCGGACACCCCCCTATCACAA  
GATGAAGATTGAGCGGCCTGTAACAGTGTCTTCTGCAACTGAAACGCAAGCGAGGAGGGGACGTGTCTGATTCCAA  
ACAGTTCACCTATTACCCTCTGGTGGAAGACAAGGAAGAGGTGCAGCGGAAGCGGAGGAAGGCCTTGCCACCTT  
CTCCAGCCCTTCGGGGGTGGCTCCACATGGGTGGAGGCTCTGGGGGTGCAGCCGGGGGCTACGGAGGAGCTGG  
AGGAGGTGGCAGCCTCGGTTTCTTCCCCTCCTCCCTGGCCTACAGCCCCCTACCAGTCCGGCGCGGGGCCCATGCG  
GTGCTACCCGGGAGGCGGGGGCGGGGCGCAGATGGCCGCCACGGTGGCCAGCAGGGACTCCGGGGAGGAAGCCGC  
GGAGCCGAGCGCCCCCTCCAGGACCCCCCAGTGCGAGCCGAGGCCCGGAGATGCTGCAGCGAGCTCGAGAGTA  
CAACGCGCGCCTGTTCCGGCCTGGCGCACGCAGCCCCGAGCCCTACTCGACTACTGCGTCACCGCGGACGCCGCGC  
GCTGCTGGCGGGACAGCGCCACCTGCTGACGGCGCAGGACGAGAACGGAGACACACCCTGCACCTAGCCATCAT  
CCACGGGCAGACCAGTGTCAATTGAGCAGATAGTCTATGTCTATCCACCACGCCCAGGACCTCGGCGTTGTCAACCT  
CACCAACCACCTGCACCAGACGCCCTGCACCTGGCGGTGATCACGGGGCAGACGAGTGTGGTGAGCTTTCTGCT  
GCGGGTAGGTGCAGACCCAGCTCTGCTGGATCGGCATGGAGACTCAGCCATGCATCTGGCGCTGCGGGCAGGCGC  
TGGTGCTCCTGAGCTGCTGCGTGCACTGCTTCAGAGTGGAGCTCCTGCTGTGCCCCAGCTGTTGCATATGCCTGA  
CTTTGAGGGACTGTATCCAGTACACCTGGCGGTCCGAGCCCCGAAGCCCTGAGTGCCTGGATCTGCTGGTGACAG  
TGGGGCTGAAGTGAGGCCACAGAGCGGCAGGGGGGACGAACAGCCTTGCATCTAGCCACAGAGATGGAGGAGCT  
GGGGTTGGTCACCCATCTGGTCACCAAGCTCCGGGCCAACGTGAACGCTCGCACCTTTGCGGGAAACACACCCCT  
GCACCTGGCAGCTGGACTGGGGTACCCGACCCTCACCCGCTCCTTCTGAAGGCTGGTGCTGACATCCATGCTGA  
AAACGAGGAGCCCCCTGTGCCCACTGCCTTACCCCCCTACCTCTGATAGCGACTCGGACTCTGAAGGGCCTGAGAA  
GGACACCCGAAGCAGCTTCCGGGGCCACACGCCTCTTGACCTCACTTGCAGCACCTTGGTGAAGACCTTGCTGCT  
AAATGCTGCTCAGAACACCATGGAGCCACCCCTGACCCCGCCCAGCCCAGCAGGGCCGGGACTGTCACTTGGTGA  
TACAGCTCTGCAGAACCTGGAGCAGCTGCTAGACGGGCCAGAAGCCCAGGGCAGCTGGGCAGAGCTGGCAGAGCG  
TCTGGGGCTGCGCAGCCTGGTAGACACGTACCGACAGACAACCTCACCCAGTGGCAGCCTCCTGCGCAGCTACGA  
GCTGGCTGGCGGGGACCTGGCAGGTCTACTGGAGGCCCTGTCTGACATGGGCCTAGAGGAGGGAGTGAGGCTGCT  
GAGGGGTCCAGAAACCCGAGACAAGCTGCCCAGCACAGAGGTGAAGGAAGACAGTGGGTACGGGAGCCAGTCAGT  
GGAGCAGGAGGCAGAGAAGCTGGGCCCACCCCTGAGCCACCAGGAGGGCTCTCGCACGGGCACCCCCAGCCTCA  
GGTGA CTGACCTGCTGCCTGCCCCAGCCCCCTTCCCGGACCCCCCTGTACAGCGTCCCCACCTATTTCAAATCTT  
ATTTAACACCCCCACACCCACCCCTCAGTTGGGACAAAT**TAA**AGGATTCTCATGGGAAGGGGAGGACCCCGAATTCC  
T

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**FIGURE 1216**

MESCYNPGLDGIIEYDDFKLNSSIVEPKEPAPETADGPYLVIVEQPKQRGFRFRYGCEGPPSHGGLPGASSEKGRK  
TYPTVKICNYEGPAKIEVDLVTHSDPPRAHAHSLVGKQCSELGICAVSVGPKDMTAQFNNLGVLVHTKKNMMGMTM  
IQKLQRQRLRSRPQGLTEAEQRELEQEAKELKKVMDLSIVRLRFS AFLRASDGSFSLPLKPVTSQPIHDSKSPGA  
SNLKISRMDKTAGSVRGDEVYLLCDKVQKDDIEVRFYEDDENGWQAFGDFSPTDVHKQYAIVFRTPPYHKMKIE  
RPVTVFLQLKRKRGGDVSDSKQFTYYPLVEDKEEVQRKRRKALPTFSQPFGGGSHMGGGSGGAAGGYGGAGGGGS  
LGFFPSSLAYSPYQSGAGPMRCYPGGGGGAQMAATVPSRDSGEEAAEPSAPSRTPOCEPQAPPEMLQRAREYNARL  
FGLAHAAPSPTRLLRHRGRALLAGQRHLLTAQDENGDTPLHLAI IHGQTSVIEQIVYVIHHAQDLGVVNLTNHL  
HQTPHLAVITGQTSVVSFLLRVGADPALDRHGDSAMHLALRAGAGAPPELLRALLQSGAPAVPQLLHMPDFEGL  
YPVHLAVRARSPECDLLVDSGAEVEATERQGGRTALHLATEMEELGLVTHLVTKLRANVNARTFAGNTPLHLAA  
GLGYPTLTRLLKAGADIHAENEEPLCPLPSPPTSDSDSDSEGPEKDTRSSFRGHTPLDLTCSTLVKTLNNAQ  
NTMEPPLTPPSPAGPGLSLGDTALQNLQQLLDGPEAQGSWAELAERLGLRSLVDTYRQTTSPSGSLLRSYELAGG  
DLAGLLEALSDMGLEEGVRLLRGPETRDKLPSTEVKEDSAYGSQSVEQEAELGPPPEPPGGLSHGHPQPQVTDL  
LPAPSPPLPGPPVQRPHLFQILFNTPHPPPLSWDK

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**FIGURE 1217**

GACCACGCGTATCGATGTCGACCCACAGGATTGTACAGAGGGCAGGGTGGTGA CTGAGGACCAGCTCCTCATGC  
TTGAGGCTGTGGTGATGCACCTCGGGATCCGCTCTGCCCCGCTGTGTCTTGGGC**ATG**GAGGGTCAGCAGGTCATCC  
TGCACCTGCCCCCTATCCAGAAAGGGGCCCTTCTGGACATGGGAGCCTAGTGCCCCCTCGAACTCTGCTCCAGGTCC  
TACAGGATCCAGCCCTGAAAGACCTCGTCCTCACCTGCCCCACCCCTGCCCTGGCATTCCCTGATCCTGCGGCCCC  
AGTATGAGATCCAAGCCATCATGCACATGCGCAGGACCATTGTCAAGATCCCTTCTACCCTGGAGGTGCGACGTGG  
AGGACGTCAACCGCCTCCTCCCGGCACGTCCACTTTATCAAACCGCTGCTGCTGAGCGAGGTCTTGGCCTGGGAAG  
GCCCTTTCCCCCTGTCCATGGAGATCCTGGAGGTTCTTGAGGGCCGCCCATCTTCCTCAGCCCCGTGGGTGGGCT  
CCTTGCAAAAAGGCCAGAGGCTTTGCGTCTATGGCCTAGCCTCACCACCCTGGCGGGTCTTGGCCTCAAGCAAGG  
GCCGCAAGGTGCCCAGGCACTTCTGGTGTGAGGGGGCTACCAAGGCAAGCTGCGGCGGCGGCCAAGGGAGTTCC  
CCACGGCCTATGACCTCCTAGGTGCTTTCCAGCCAGGCCGGCCACTCCGGGTGGTGGCCACAAGGACTGTGAGG  
GCGAGAGGGAGGAGAATCCCGAGTTCACGTCCCTGGCTGTGGGTGACCGGCTGGAGGTGCTGGGGCCTGGCCAGG  
CCCATGGGGCCCAGGGCAGTGACGTGGATGTCTTGGTTTGTGACGGCTGAGTGACCAGGCTGGGGAAGATGAGG  
AGGAAGAGTGCAAAGAGGAGGCAGAGACCCAGAGCGGGTCTGCTGCCCTTCCACTTCCCTGGCAGTTTCGTGGA  
GGAGAT**TGA**GTGACAGCCGGCGCTACAGCCTGGCAGATCTGACTGCCAGTTTTCAATGCCTTGTGAGGTCAAGGT  
GGTGGCCAAGGACACCAGCCACCCCAATGACCCTCAGAACCTCCTTCCTGGGCCTGCGGCTGGAGGAGAAGATCA  
CAGAGCCATTCTTGGTGGTGAGCCTGGACTCTGAGCTGGGATGTGCTTTGAGATCCCTCCCCGGAGGCTGGACCT  
GACTGTCTGTGGAGGCCAAGGGGCAGCCAGACTTGCCAGAGGGGTCTCTCCCATAGCCACAGTGAGGAAGCTGG  
AACAGACACCTTTTATTATTGTCTTCGGAAGTTACCAGCCTGTGAGATCCAAGCCCCCCCACCCAGGCCCCCTAA  
AAATCAGGGCCTCAGCAAGCAGAGGAGACACAGCAGTGAGGGAGGCGTCAAGTCTTCTCAAGTCTTAGGATTGCA  
GCAACACGTTCTGGCTGCCCAAACCCAAGGCGAAGACCTTGCCAGAGTTCATCAAGGATGGCTCCAGTACGTACAG  
CAAGATTCTTGCCACAGGAAGGGCCACAGGCCCCGCTAAGCCCCAAAGGCAGGATCTAGATGATGATGAACATGA  
TTATGAAGAAATACTTGAGCAATTTAGAAAACCATCTAAGTGCTGGAGGAACACGCTTCCTAACTGCTGCTTC  
TCAGGGAATCCGACACCAGCCAACCATTTTAAGCCTCTAAAAGACCTCGGGCAAGTCTCACAGAACTGAGCTGC  
AGACGGGGAGTAGCTTTGTGGAACTGATTTGATGGACACTGCACCAGCTTCCTTCAGGTTCTAGATTCTTGCTA  
CTTAGGGCGGGCTGGTTTGGACCTAACATCTCGCACGTGACTCCCTCAGCCTCAGAGCCTTGGGATGCAGAGCAG  
CTGGCAGGGTTCTCTCAATCCTGCAACCCCAGCTGTCCACCGGTGGATGCAGAGGGGAATCCGAGGCCATCAA  
CCTTGGTGACAGCAGCGCAGTGCCAATGCTGATCACACTGCATGGGAGATTTTGTAAACGTCTGCCACCCCCACT  
CTCACCCCCAAGCTCTAAGCCCCGGGAGGCCTGGACTGTCTTCCTCATCTCTGTAGCACCAAGCCTGATAGATC  
TGTATATGGTAAACAGGGGTTTAACCACATGTGGTTAACATGGATTAATGTGGGAATTTGGCTTCAAGAACACAA  
CCTTAGGACCTTGGGCCCCAAAAGCTGGTGGTGAAATGAGAGGAGCCAATTTAAGAAGACCCTTATGGAGACCTG  
AGGCTGCAGAACTGGTAGGTTTCATCAGGTGGTTAAAGTCGTCAAAGTTGTAAGTGACTAACCAAGATTATTC  
ATTTTAAAACACAGAATAAAAATGACACCTGAGCTTCTCC

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**FIGURE 1218**

MEGQQVILHLPLSQKGFWTWEP SAPRTLQVLQDPALKDLVLTCTLPWHS LILRPQYEIQAIMHMRRTIVKIP  
STLEVDVEDVTASSRHVHF I KPLLLSEVLAWEGPFPLSMEILEVPEGRPIFLSPWVGS LQKGQRLCVYGLASPPW  
RVLASSKGRKVPRHFLVSGGYQGKLRRRPREFPTAYDLLGAFQ PGRPLRVVATKDCEGEREENPEFTSLAVGDRL  
EVLGPGQAHAQAQSDVDVLVCQRLSDQAGEDDEEECKEEAETQSGSCCPSTSLAVSWRR

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**FIGURE 1219**

CTAGCTCTGTGGGAAGGTTTTGGGCTCTCTGGCTCGGATTTTGCAATTTCTCCCTGGGGACTGCCGTGGAGCCGC  
ATCCACTGTGGATTATAATTGCAACATGACGCTGGAAGAGCTCGTGGCGTGCGACAACGCGGCGCAGAAGATGCA  
GACGGTGACCGCCGCGGTGGAGGAGCTTTTGGTGGCCGCTCAGCGCCAGGATCGCCTCACAGTGGGGGTGTACGA  
GTCGGCCAAGTTGATGAATGTGGACCCAGACAGCGTGGTCCTCTGCCTCTTGGCCATTGACGAGGAGGAGGAGGA  
TGACATCGCCCTGCAAATCCACTTCACGCTCATCCAGTCCTTCTGCTGTGACAACGACATCAACATCGTGCGGGT  
GTCGGGCAATGCGCGCCTGGCGCAGCTCCTGGGAGAGCCGGCCGAGACCCAGGGCACCCAGGAGGCCCGAGACCT  
CCACTGTCTTCCCTTCCTACAGAACCCTCACACGGACGCTGGAAGAGCCACGGCTTGGTGGAGGTGGCCAGCTA  
CTGCGAAGAAAGCCGGGGCAACAACCAGTGGGTCCCCCTACATCTCTCTTCAGGAACGCTTGAGGCCCTTCCCAGCA  
GCAGAACTCTGTTGAGTTGCTGCCAACAAACAAAAAATACAATAAATATTTGAACCCCTCCCCCCCAGCACAAAC  
CCCCAAAACAACCCAACCCACGAGGACCATCGGGGGCAGGTCGTTGGAGACTGAAGAGAAAGAGAGAGAGGAGA  
AGGGAGTGAGGGGCCGCTGCCGCCTTCCCCATCACGGAGGGTCCAGACTGTCCACTCGGGGGTGGAGTGAGACTG  
ACTGCAAGCCCCACCCTCCTTGAGACTGGAGCTGAGCGTCTGCATACGAGAGACTTGGTGAACTTGGTTGGTC  
CTTGTCTGCACCCTCGACAAGACCACACTTTGGGACTTGGGAGCTGGGGCTGAAGTTGCTCTGTACCCATGAACT  
CCCAGTTTGCGAATTAATAAGAGACAATCTATTTTGTACTTGCACTTGTTATTCTGAACCACTGAGAGCGAGATG  
GGAAGCATAGATATCTATATTTTTATTCTACTATGAGGGCCTTGTAATAAATTTCTAAAGCCTCAAAAAA

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**FIGURE 1220**

MTLEELVACDNAAQKMQTVTAAVEELLVAAQRQDRLTVGVYESAKLMNVDPDSVVLCLLAIDEEEEEEDDIALQIHF  
TLIQSFCCDNDINIVRVSGNARLAQLLGEP AETQGTTEARDLHCLPFLQNPHTDAWKSHGLVEVASYCEESRGNN  
QWVPYISLQER



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**FIGURE 1221**

AGCATTTTCAGGCCCCGGACAGGAGGCAGTGCCGCTTCGGCCGAAGGCCGAGCCGCCCCGAGGGCTCTGGGATGGTG  
TGGGACCGGCAAACCAAG**ATG**GAGTATGAGTGGAAACCTGACGAGCAAGGGCTTCAGCAAATCCTGCAGCTGTTG  
AAGGAGTCCCAGTCCCAGACACCACCATCCAGAGAACCGTGCAACAAAACTGGAACAACCTTAATCAGTATCCA  
GACTTTAACAACACTTGTGATTTTTGTTCTTACAAAAATTTAAATCTGAAGATGAACCCACAAGATCATTGAGTGGT  
CTTATCTTGAAGAATAATGTGAAAGCACACTTTTCAGAACTTCCCAAATGGTGTAACAGACTTTATTAAAAAGTGAA  
TGTTTAAATAATATTGGTGACTCCTCTCCTCTGATTAGAGCCACTGTTGGTATTTTGTATCACAACCTATAGCCTCC  
AAGGGAGAATTGCAGAATTGGCCTGACCTCTTACCAAAACTCTGTAGCCTGTTGGATTCTGAAGATTATAATACC  
TGTGAGGGAGCATTGGTGCCCTTCAGAAGATTTGTGAAGATTCTGCTGAGATTTTAGACAGTGATGTTTTAGAT  
CGTCCTCTCAACATCATGATTCCCAAATTTTACAGTCTCTCAAGCATAGTAGTCCAAAAATAAGGTCTCACGCT  
GTTGCATGTGTCAATCAGTTTATCATCAGTAGGACTCAAGCTCTAATGTTGCACATTGATTCTTTTACTGAGAAT  
CTCTTGTGATTAGCTGGTGATGAAGAACCAGAGGTACGGAAAAATGTGTGCCGAGCACTTGTGATGTTGCTCGAA  
GTTGCAATGGATCGCCTGCTTCTCACATGCATAATATAGTTGAGTACATGCTACAGAGGACTCAAGATCAAGAT  
GAAAATGTGGCTTTAGAAGCCTGTGAATTTTGGCTAACTTTAGCTGAACAGCCAATATGCAAAGATGTACTCGTA  
AGGCATCTTCTAAGTTGATTCTGTGTTAGTGAATGGCATGAAGTACTCAGACATAGATATTATCCTACTTAAAG  
GGTGATGTTGAAGAAGACGAAACGATTCTGTAGTGAACAGGATATACGGCCACGTTTTTACCAGATCGAGGACG  
GTGGCTCAGCAGCATGATGAAGATGGAATTGAAGAGGAAGACGATGATGATGAAATTGATGATGATGATACAA  
ATTTTCAGACTGGAATCTAAGAAAATGTTCTGCTGCTGCCCTGGATGTTCTTGCAAATGTGTATCGTGATGAAGT  
CTGCCACATATTTTGCCCTTTTGAAGAATTACTTTTTCATCATGAATGGGTTGTTAAAGAATCAGGCATTTTG  
GTTTTAGGAGCAATTGCTGAAGGTTGCATGCAGGGCATGATTCCATACTTGCCTGAGCTTATTCTCACCTTATT  
CAGTGCCTCTCTGATAAAAAGGCTCTTGTGCGTTCCATAACATGCTGGACTCTTAGCCGCTATGCACACTGGGTG  
GTCAGCCAGCCGCCAGACACGTACCTGAAGCCATTAATGACAGAATTGCTAAAGCGCATCCTGGACAGCAACAAG  
AGAGTACAAGAAGCTGCCTGCAGTGCCTTTGCTACCCTAGAAGAGGAGGCTTGTACAGAACTTGTTCCTTACCTT  
GCTTATATACTTGATACCCTGGTCTTTGCATTTAGTAAATACCAGCATAAGAACCTGCTCATTCTTTACGATGCC  
ATAGGAACATTAGCAGATTTCAGTAGGACATCATTTAAACAAACCAGAATATATTTCAGATGCTAATGCCTCCACTG  
ATCCAGAAATGGAACATGTTAAAGGATGAAGATAAAGATCTCTTCCCTTTACTTGAGTGCCTATCTTCAGTTGCC  
ACAGCACTGCAGTCTGGATTCTTCCGTACTGTGAACCTGTGTATCAGCGTTGTGTAAACCTAGTACAGAAGACT  
CTTGCAACAAGCCATGCTAAACAATGCTCAACCAGATCAATATGAAGCTCCAGATAAAGATTTTATGATAGTGGCT  
CTTGATTTACTGAGTGGCCTGGCTGAAGGACTTGAGGCAACATTGAACAGCTGGTAGCCCGAAGTAACATCCTG  
ACACTAATGTATCAGTGCATGCAGGATAAAATGCCAGAAGTTCGACAGAGTTCTTTTGCCCTGTTAGGTGACCTC  
ACAAAAGCTTGCTTTTCAGCATGTTAAGCCTTGATAGCTGATTTTCATGCCAATATTGGGAACCAACCTAAATCCA  
GAATTCATTTTCAGTCTGCAACAATGCCACATGGGCAATTGGAGAAATCTCCATTCAAATGGGTATAGAGATGCAG  
CCTTATATTCTATGGTGTGTCACCAGCTTGTAGAAATCATTAAACAGACCCAACACACCAAAGACGTTGTTAGAG  
AATACAGCAATAACAATTGGTCGTCTTGTTACGTTTGTCTCAAGAGGTGGCCCCCATGCTACAGCAGTTTATA  
AGACCCTGGTGCACCTCTCTGAGAAACATAAGAGACAATGAGGAAAAGGATTTCAGCATTCCGTGGAATTTGTACC  
ATGATCAGTGTGAATCCAGTGGCGTAATCCAAGATTTTATATTTTTTGTGATGCCGTTGCATCATGGATTAAC  
CCAAAAGATGATCTCAGAGACATGTTCTGTAAAGATCCTTCATGGATTTAAAAATCAAGTTGGCGATGAAAATTGG  
AGGCGTTTCTCTGACCAGTTTCTCTTCCCTTAAAAGAGCGTCTTGCAGCTTTTTATGGTGT**TAA**TCTAATACA  
CTTAAGCTGCAGTCCCAAATTAGGGGTCTTCAGTCTTGAGACTATAAGGGAGCCTCTGCACCCAGGGGAAAAT  
GTTACCCTTTACAGGGGGGAAGGGTAAACCAGTAGGGAATACAGTACAATCCCAACCCTACTGGGAGGGGCGGGA  
GGGAGGTGTTGCCGTCACCTGTATTAAAGTCGATGTTGGGAAACGTTTTAACATCTGGAGCCTTTGTGGGTGGAAAT  
ATGTCTCCAGTTACAACCTCCGAGTGGATGTGAAGAAGCAAAAAAAAAAAAAA

**FIGURE 1222**

MEYEWKPDEQGLQQILQLLKESQSPDTTIQRTVQQKLEQLNQYPDFNNYLIFVLTKLKSEDEPTRSLSGLILKNN  
VKAHFQNFNPNGVTDIFIKSECLNNIGDSSPLIRATVGILITTIASKGELQNWPDLLPKLCSLLDSEDYNTCEGAFG  
ALQKICEDSAEILSDVLDRLPLNIMIPKFLQFFKHSSPKIRSHAVACVNQFIIISRTQALMLHIDSFTENLFALAG  
DEEPEVRKNVCRALVMLLEVRMDRLPHMHNIVEYMLQRTQDQDENVALEACEFWLTLAEQPICKDVLVRHLPKL  
IPVLVNGMKYSDIDIILLKGDVEEDETIPDSEQDIRPRFHRSTRVAQQHDEDGIEEEDDDDEIDDDDTISDWNL  
RKCSAAALDVLANVYRDELLPHILPLLKELLFHHEWVVKESGILVLGAIAEGCMQGMIPYLPELIPHLIQCLSDK  
KALVRSITCWTLSTRYAHWVVSQPPD TYLKPLMTTELLKRILDSNKRVQEAACSAFATLEEEACTELVPYLAYILD  
LVFAFSKYQHKNLLILYDAIGTLADSVGHHLNKPEYIQMLMPPLIQKWNMLKDEDKDLFPLLECLSSVATALQSG  
FLPYCEPVYQRCVNLVQKTLAQAMLNNAQPDQYEAPDKDFMIVALDLLSGLAEGLGGNIEQLVARSNILTLMYQC  
MQDKMPEVRQSSFALLGDLTKACFQHVKPCIADFMPI LGTNLNPEFISVCNNATWAIGEISIQMGIEMQPYIPMV  
LHQLVEIINRPNTPKTLLENTAITIGRLGYVCPQEVAPMLQQFIRPWCTSLRNIRDNEEKDSAFRGICTMISVNP  
SGVIQDFIFFCDAVASWINPKDDL RDMFCKILHGFKNQVGDENWRRFSDQFPLPLKERLAAFYGV

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**FIGURE 1223**

GCTCACTGCCACACGCAGCTCAGCCTGGGCGGCACAGCCAGATGCGAGATGCGTCTCTGCTGATCTGAGTCTGCC  
TGCAGCATGGACCTGGGTCTTCCCTGAAGCATCTCCAGGGCTGGAGGGACGACTGCCATGCACCGAGGGCTCATC  
CATCCGCAGAGCAGGGCAGTGGGAGGAGACGCCATGACCCCCATCGTCACAGTCCTGATCTGTCTCGGGCTGAGT  
CTGGGCCCCAGGACCCACGTGCAGACAGGGACCATCCCCAAGCCCACCCTGTGGGCTGAGCCAGACTCTGTGATC  
ACCCAGGGGAGTCCCGTACCCCTCAGTTGTGAGGGGAGCCCTTGAAGCCCAGGAGTACCGTCTATATAGGGAGAAA  
AAATCAGCATCTTGGATTACACGGATACGACCAGAGCTTGTGAAGAACGGCCAGTTCCACATCCCATCCATCACC  
TGGGAACACACAGGGCGATATGGCTGTGAGTATTACAGCCGCGCTCGGTGGTCTGAGCTCAGTGACCCCTGGTG  
CTGGTGATGACAGGAGCCTACCCAAAACCCACCCTCTCAGCCCAGCCCAGCCCTGTGGTGACCTCAGGAGGAAGG  
GTGACCCCTCCAGTGTGAGTCACAGGTGGCATTGCGGCTTCATTCTGTGTAAGGAAGGAGAAGATGAACACCCA  
CAATGCCTGAACTCCAGCCCCATGCCCCGTGGGTCTGTCGCGCCATCTTCTCCGTGGGCCCCGTGAGCCCGAAT  
CGCAGGTGGTCGCACAGGTGCTATGTTATGACTTGAACCTCTCCCTATGTGTGGTCTTACCCAGTGATCTCCTG  
GAGCTCCTGGTCCCAGGTGTTTCTAAGAAGCCATCACTCTCAGTGCAGCCGGGTCTGTGCTGGCCCCCTGGGGA  
AGCCTGACCCCTCCAGTGTGTCTCTGATGTGCGCTATGACAGATTTGTTCTGTACAAGGAGGGGGAACGTGACCTT  
CGCCAGCTCCCTGGCCGGCAGCCCCAGGCTGGGCTCTCCAGGCCAACTTCACCCTGGGCCCTGTGAGCCGCTCC  
TACGGGGGCCAGTACAGATGCTACGGTGCATACAACCTCTCCTCCGAGTGGTTCGGCCCCCAGCGACCCCTGGAC  
ATCCTGATCACAGGACAGATCCATGGCACACCCTTCATCTCAGTGCAGCCAGGCCCCACAGTGGCCTCAGGAGAG  
AACGTGACCCCTGCTGTGTGTCAGTCATGGCGGCAGTTCCACACTTTCCTTCTGACCAAGGCGGGAGCAGCTGATGCC  
CCACTCCGTCTAAGATCAATACACGAATATCCTAAGTACCAGGCTGAATTCCCCATGAGTCTGTGACCTCAGCC  
CACGCGGGGACCTACAGGTGCTACGGCTCACTCAACTCCGACCCCTACCTGCTGTCTCACCCCAGTGAGCCCCTG  
GAGCTCGTGGTCTCAGGACCCTCCATGGGTTCAGCCCCCCCACCCACCGGTCCCATCTCCACACCTGCAGGCCCT  
GAGGACCAGCCCCTCACCCCCACTGGGTGGGATCCCCAAAGTGGTCTGGGAAGGCACCTGGGGGTTGTGATCGGC  
ATCTTGGTGGCCGTCGTCTACTGCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCATCCTCCGACATCGACGTCAGGGC  
AAACACTGGACATCGACCCAGAGAAAGGCTGATTTCCAACATCCTGCAGGGGCTGTGGGGCCAGAGCCCACAGAC  
AGAGGCCTGCAGTGGAGGTCCAGCCCAGCTGCCGACGCCAGGAAGAAAACCTCTATGCTGCCGTGAAGGACACA  
CAGCCTGAAGATGGGGTGGAGATGGACACTCGGGCTGCTGCATCTGAAGCCCCCAGGATGTGACCTACGCCAG  
CTGCACAGCTTGACCCTCAGACGGAAGGCAACTGAGCCTCCTCCATCCCAGGAAAGGGAACCTCCAGCTGAGCCC  
AGCATCTACGCCACCCTGGCCATCCACTTAGCCCCGAGGGTACGCAGACTCCACACTCAGTAGAAGGAGACTCAGG  
ACTGCTGAAGGCACGGGAGCTGCCCCAGTGGACACCAATGAACCCAGTCAGCCTGGACCCCTAACAAGACCA  
TGAGGAGATGCTGGGAACCTTTGGGACTCACTTGATTCTGCAGTCGAAATAACTAATATCCCTACATTTTTTAATT  
AAAGCAACAGACTTCTCAATAAAAGCAGGTCTGCTCGTTCCAATCT

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**FIGURE 1224**

MTPIVTVLICLGLSLGPRTHVQTGTIPKPTLWAEPSVITQGSPVTLSCQGSLEAQEYRLYREKKSASWITRIRP  
ELVKNGQFHIPSITWEHTGRYGCQYYSRARWSELSDPLVLVMTGAYPKPTLSAQPSPVVTSGGRVTLQCESQVAF  
GGFILCKEGEDEHPQCLNSQPHARGSSRAIFSVGPVSPNRRWSHRCYGYDLNSPYVWSSPSDLLELLVPGVSKKP  
SLSVQPGPVVAPGESLTLQCVSDVGYDRFVLYKEGERDLRQLPGRQPQAGLSQANFTLGFPVSRSYGGQYRCYGAY  
NLSSEWSAPSDPLDILITGQIHGTPFISVQPGPTVASGENVTLLCQSWRQFHTFLLTKAGAADAPLRRLRSIHEYF  
KYQAEFFPMSPVTSAHAGTYRCYGSLSNDPYLLSHPSEPLELVVSGPSMGSSPPPTGPISTPAGPEDQPLTPTGSD  
PQSGLGRHLGVVIGILVAVVLLLLLLLLLLLLFLILRHRRQKGHWSTQRKADFQHPAGAVGPEPTDRGLQWRSSPAA  
DAQEENLYAAVKDTQPEDGVEMDTRAAASEAPQDVTYAQLHSLTLRRKATEPPPSQEREPPAEPSTYATLAIH

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**FIGURE 1225**

GAATTCCCGTGATAGACAGACTGTCCACCATCTGAACCTTCATTCACCACCATTTCGATAACCCTTCTTCCGAGCC  
TCTCCTCTGGTCGCGCGGGGAGGAGAGGCGAGATGGCAGATGAGATTGCCAAGGCTCAGGTCGCTCGGCCTGGTG  
GCGACACGATCTTTGGGAAGATCATCCGCAAGGAAATACCAGCCAAAATCATTTTTGAGGATGACCGGTGCCTTG  
CTTTCCATGACATTTCCCCTCAAGCACCAACACATTTTCTGGTGATACCCAAGAAACATATATCCCAGATTTCTG  
TGGCAGAAGATGATGATGAAAGTCTTCTTGGACACTTAATGATTGTTGGCAAGAAATGTGCTGCTGATCTGGGCC  
TGAATAAGGGTTATCGAATGGTGGTGAATGAAGGTTTCAGATGGTGGACAGTCTGTCTATCACGTTTCATCTCCATG  
TTCTTGGAGGTCGGCAAATGCATTGGCCTCCTGGTTAAGCACGTTTTGGGGATAATTTTCTTCTTTAGCATGA  
TAAGTTAGGCAATTTCCAGTATGTTAAGTAACACACTTATTTTTCCTGTGTATGGAGAGATTCAAGAAATAATTT  
TAAACCCGCTACATAATAAAAGACATTGTTGCATGGAATTC

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**FIGURE 1226**

MADEIAKAQVARPGDTIFGKIIRKEIPAKIIFEDDRCLAFHDISPQAPTHFLVIPKKHISQISVAEDDDDESLG  
HLMIVGKKCAADLGLNKGYRMVVNEGSDGGQSVYHVHLHVLGGRQMHWPPG

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**FIGURE 1227**

GTTTTTTTCCCTTCTGAGCA**ATG**GAGCTTACCATCTTTATCCTGAGACTGGCCATTTACATCCTGACATTTCCCT  
TGTACCTGCTGAACTTTCTGGGCTTGTGGAGCTGGATATGCAAAAAATGGTTCCCCTACTTCTTGGTGAGGTTCA  
CTGTGATATACAACGAACAGATGGCAAGCAAGAAGCGGGAGCTCTTCAGTAACCTGCAGGAGTTTGCGGGGCCCCCT  
CCGGGAAACTCTCCCTGCTGGAAGTGGGCTGTGGCACGGGGGCCAACTTCAAGTTCTACCCACCTGGGTGCAGGG  
TGACCTGTATTGACCCCAACCCCAACTTTGAGAAAGTTTTTGATCAAGAGCATTGCAGAGAACCGACACCTGCAGT  
TTGAGCGCTTTGTGGTAGCTGCCGGGGAGAACATGCACCAGGTGGCTGATGGCTCTGTGGATGTGGTGGTCTGCA  
CCCTGGTGCTGTGCTCTGTGAAGAACCAGGAGCGGATTCTCCGCGAGGTGTGCAGAGTGCTGAGACCGGGAGGGG  
CTTTCTATTTTCATGGAGCATGTGGCAGCTGAGTGTTTCGACTTGGAATTACTTCTGGCAACAAGTCTGGATCCTG  
CCTGGCACCTTCTGTTTGATGGGTGCAACCTGACCAGAGAGAGCTGGAAGGCCCTGGAGCGGGCCAGCTTCTCTA  
AGCTGAAGCTGCAGCACATCCAGGCCCCACTGTCTCTGGGAGTTGGTGCGCCCTCATATCTATGGATATGCTGTGA  
AA**TAG**TGTGAGCTGGCAGTTAAGAGCTGAATGGCTCAAAGAATTTAAAGCTTCAGTTTTACATTTAAAATGCTAA  
GTGGGAGAAGAGAAACCTTTTTTTTTGGGGGGCGGTTTTTTTTGGTTTGTGTTGGTTTTTTTTTTTTTTTTTTGGCAA  
GACTCCGTCTCAAAAAAAAAAAAAAAAAAAAAAGAAGTAGAGACAGGGAGACAGGGTCTCACTGTGTTGCCTAG  
GCCGGTCTTGAACCTCTGGGCTCAAGTGATTCTCCACCTTGACCTCCTAAATTGTTGGGATTACAGGTGTGAGA  
CAGTGCACCTGGCCGAAATAGCTCAAGTTTCTGAAAAACAAATCTGAATCTATTTGTTATTCTTAGCGTCACTGG  
TCTGGCTTTCAGAATTAACATACAAGGTTGCCACACCTAGTTCTGCCCAGCTTTATGTCTTTTATTCCAGTATTC  
CACCAAAGTTTGTTCCTGCATTCCAGTTCTCAAGTCTTAAGATAAAGATTGTACTTGACAGTTTAGTATATCC  
ATAAACTATTTGAGGTGGTTAAGGTTCTTGGGTTCATTTTCTTAATACTTTGCTGAATATTGTAGATTGTAGG  
CAATGAAAAAGTCTACTAAATTAGGAAAACCTTGAATAATTAGGTATCCTAGGTAAGAGCCCCTAAACATCAAGC  
AATCTGTGAGTCTGTAAAGAAATAAATATTTTTTGGATTATTCTTATCTAATTCCACCCCTGTTGGAAGATGATT  
TCTTTGTTCTTTGCAACTATGGAAGCTGTGAAAATCATCACAAAGTGCCTCTGAAAGCGAGTGTTAGGTTGGTTAG  
AGGGTTTAATATTTTCTGCAATGGTTTGTAGGAATTTTAATAAATGTAGTATATTTTCTGAGATGATTTTGTAAA  
AGTACTATTTTAAATATCAAATCAACCAATAAATTCACATTTGTGTTAGGAACAG

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**FIGURE 1228**

MELTIFILRLAIYILTFPLYLLNFLGLWSWICKKWFPYFLVRFTVIYNEQMASKKRELF SNLQEFAGPSGKLSLL  
EVGCGTGANFKFYPPGCRVTCIDPNPNFEKFLIKSIAENRHLQFERFVVAAGENMHQVADGSVDVVVCTLVLCVS  
KNQERILREVCRLRPGGAFYFMEHVAAECSTWNYFWQQVLDPAWHLLFDGCNLTRESWKALERASF SKLKLQHI  
QAPLSWELVRPHIYGAVK



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**FIGURE 1229**

GGGCGGCGGTTCGGCAGCAAGGCGGCGGTGCGCCGCCGAGCTGCAGTGAC**ATGT**CCAGCATGAATCCCGAATATG  
ATTATTTATTCAAGTTACTTCTGATTGGCGACTCAGGGGTTGGAAAGTCTTGCCTTCTTCTTAGGTTTGCAGATG  
ATACATATACAGAAAGCTACATCAGCACAATTGGTGTGGATTTCAAATAAGAAGTATAGAGTTAGACGGGAAAA  
CAATCAAGCTTCAAATATGGGACACAGCAGGCCAGGAAAGATTTCTGAACAATCACCTCCAGTTATTACAGAGGAG  
CCCATGGCATCATAGTTGTGTATGATGTGACAGATCAGGAGTCCTTCAATAATGTTAAACAGTGGCTGCAGGAAA  
TAGATCGTTATGCCAGTGAAAATGTCAACAAATTGTTGGTAGGGAACAAATGTGATCTGACCACAAAGAAAGTAG  
TAGACTACACAACAGCGAAGGAATTTGCTGATTCCCTTGGAATTCGTTTTTGGAAACCAGTGCTAAGAATGCAA  
CGAACGTAGAACAGTCTTTCATGACGATGGCAGCTGAGATTAAAAAGCGAATGGGTCCCGGAGCAACAGCTGGTG  
GTGCTGAGAAGTCCAATGTTAAAATTCAGAGCACTCCAGTCAAGCAGTCAGGTGGAGGTTGCTGCT**TAA**ATTTGCC  
TCCATCCTTTTCTCACAGCAATGAATTTGCAATCTGAACCCAAGTGAA

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**FIGURE 1230**

MSSMNPEYDYLFKLLLIGDSGVGKSCLLLRFADDTYTESYISTIGVDFKIRTIELDGKTIKLQIWDTAGQERFRT  
ITSSYYRGAHGIIVVYDVTDQESFNNVKQWLQEIDRYASENVNKL LVGNKCDLTTKKVVDYTTAKEFADSLGIPF  
LETSAKNATNVEQSFMTMAAEIKKRMGPGATAGGAEKSNVKIQSTPVKQSGGGCC

[illegible]

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**FIGURE 1232**

MRVLGGRCGAPLACLLLVLVPVSEANLLSKQQASQVLVRKRRANSLEETKQGNLERECIEELCNKEEAREVFEND  
PETDYFYPKYLVCLRSFQTGLFTAARQSTNAYPDLRSCVNAIPDQCSPLPCNEDGYMSCKDGKASFTCTCKPGWQ  
GEKCEFDINECKDPSNINGGCSQICDNTPGSYHCCKNGFVMLSNNKKDCKDVDECSLKPSICGTAVCKNIPGDFE  
CECPEGYRYNLKSKSCEDIDECSENMCQQLCVNYPGGYTCYCDGKKGFKLAQDQKSCEVVSVCLPLNLDTKYELL  
YLAEQFAGVVLYLKFRLEISRFSAEFDFFRTYDSEGVILYAESIDHSAWLLIALRGGKIEVQLKNEHTSKITTTGG  
DVINNGLWNMVSVEELEHSISIKIAKEAVMDINKPGPLFKPENGLLETKVYFAGFPRKVESELIKPINPRLDGCI  
RSWNLKQMGASGIKEIIQEKQNKHCLVTVEKGSYYPGSGIAQFHIDYNNVSSAEGWHVNVTLNIRPSTGTGVMLA  
LVSGNNTVPFAVSLVDSTSEKSQDILLSVENTVIYRIQALSCLSDQQSHLEFRVNRNNLELSTPLKIETISHEDL  
QRQLAVLDKAMKAKVATYLGGLPDVPFSATPVNAFYNGCMEVNINGVQLDLDEAISKHNDIRAHSCPSVWKKTKN  
S

**FIGURE 1233**

[illegible]

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**FIGURE 1234**

MMAAMATARVRMGPRCAQALWRMPWLPVFLSLAAAAAAAAAEQQVPLVLWSSDRDLWAPAADTHEGHITSDLQLS  
TYLDPALELGPRNVLLFLQDKLSIEDFTAYGGVFGNKQDSAFSNLENALDLAPSSLVLPVLDWYAVSTLTTLTYLQE  
KLGASPLHVDLATLRELKLNASLPALLLIRLPYTASSGLMAPREVLGTGNDEVIGQVLSTLKSEDVPYTAALTAVR  
PSRVARDVAVVAGGLGRQLLQKQPVSPVIHPPVSYNDTAPRILFWAQNFVAYKDQWEDLTPLTFGVQELNLTGS  
FWNDSFARLSLTYERLFGTTVTFKFILANRLYPVSARHWFMTMERLEVHNSGVSAYFNASQVTGPSIYSFHCEYVS  
SLSKKGSLLVARTQPSPWQMLLQDFQIQAFNVMGEQFSYASDCASFFSPGIWMGLLTSLFMLFIFTYGLHMLSL  
KTMDRFDDHKGPTISLTQIV

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**FIGURE 1235**

ATGGCAGAGCAGTCGGACGAGGCCGTGAAGTACTACACCCTAGAGGAGATTTCAGAAGCACAAACCACAGCAAGAGC  
ACCTGGCTGATCCTGCACCACAAGGTGTACGATTTGACCAAATTTCTGGAAGAGCATCCTGGTGGGGAAGAAGTT  
TTAAGGGAACAAGCTGGAGGTGACGCTACTGAGAACTTTGAGGATGTCGGGCACTCTACAGATGCCAGGGAAATG  
TCCAAAACATTCATCATTGGGGAGCTCCATCCAGATGACAGACCAAAGTTAAACAAGCCTCCAGAACCTTAAAGG  
CGGTGTTTCAAGGAAACTCTTATCACTACTATTGATTCTAGTTCCAGTTGGTGGACCAACTGGGTGATCCCTGCC  
ATCTCTGCAGTGGCCGTCGCCTTGATGTATCGCCTATACATGGCAGAGGACTGAACACCTCCTCAGAAGTCAGCG  
CAGGAAGAGCCTGCTTTGGACACGGGAGAAAAGAAGCCATTGCTAACTACTTCAACTGACAGAAACCTTCACTTG  
AAAACAATGATTTTAAATATATCTCTTTCTTTTTCTTCCGACATTAGAAACAAAACAAAAGAAGTGTCTTTCTG  
CGCTCAAATTTTTCGAGTGTGCCTTTTTATTTCATCTACTTTATTTTGATGTTTCCTTAATGTGTAATTTACTTAT  
TATAAGCATGATCTTTTAAAAATATATTTGGCTTTTAAAGT

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**FIGURE 1236**

MAEQSDEAVKYYTLEETIQKHNSKSTWLILHHKVYDLTKFLEEHPGGEEVLREQAGGDATENFEDVGHSTDAREM  
SKTFIIGELHPDDRPKLNKPPEP



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**FIGURE 1237**

CACAGCCGGGTCGCAGGCACCTCCCCXGCCAGCTCTCCCGCATTCTGCACAGCTTCCCGACGCGTCTGCTGAGCC  
CC**ATG**GCCCACGCCACGCTCTCCGCCGCCCCCAGCAATCCCCGGCTCCTGCGGGTGGCGCTGCTGCTCCTGCTCC  
TGGTGGGCAGCCGGCGCGCAGCAGGAGCGTCCGTGGTCACTGAACTGCGCTGCCAGTGCTTGACAGACTGCAGG  
GAATTCACCTCAAGAACATCCAAAGTGTGAATGTAAGGTCCCCCGGACCCCACTGCGCCCCAAACCGAAGTCATAG  
CCACACTCAAGAATGGGAAGAAAGCTTGTCTCAACCCCGCATCCCCCATGGTTTCAGAAAATCATCGAAAAGATAC  
TGAACAAGGGGAGCACCAAC**TGA**CAGGAGAGAAGTAAGAAGCTTATCAGCGTATCATTGACACTTCCTGCAGGGT  
GGTCCCTGCCCTTACCAGAGCTGAAAATGAAAAAGAGAACAGCAGCTTTCTAGGGACAGCTGGAAAGGGACTTAA  
TGTGTTTGACTATTTCTTACGAGGGTTCTACTTATTTATGTATTTATTTTTGAAAGCTTGATTTTAAATATTTA  
CATGCTGTTATTTAAAGATGTGAGTGTGTTTCATCAAACATAGCTCAGTCCTGATTATTTAATTGGAATATGATG  
GGTTTTAAATGTGTCATTAAACTAATATTTAGTGGGAGACCATAATGTGTCAGCCACCTTGATAAATGACAGGGT  
GGGGAAGTGGAGGGTXGGGGGATTGAAATGCAAGCAATTAGTGGATCACTGTTAGGGTAAGGGAATGTATGTACA  
CATCTATTTTTTATACTTTTTTTTTTAAAAAAGAAATGTCAGTTGTTATTTATTCAAATTATCTCACATTATGTGT  
TCAACATTTTTTATGCTGAAGTTTCCCTTAGACATTTTATGTCTTGCTTGTAGGGCATAATGCCTTGTTTAATGTC  
CATTCTGCAGCGTTTCTCTTTCCCTTGAAAAAGAGAATTTATCATTACTGTTACATTTGTACAAATGACATGATA  
ATAAAAGTTTTATG

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**FIGURE 1238**

MAHATLSAAPSNPRLLRVALLLLLLVGSRRRAAGASVVTELRCQCLQTLQGIHLKNIQSVNVRSPGPHCAQTEVIA  
TLKNGKKACLNPA SP MVQKIEKILNKGSTN

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**FIGURE 1239**

ATACAGGACAGAGC**ATG**GCTCGCCTACAGACTGCACTCCTGGTTGTCCTCGTCCTCCTTGCTGTGGCGCTTCAAG  
CAACTGAGGCAGGCCCCCTACGGCGCCAACATGGAAGACAGCGTCTGCTGCCGTGATTACGTCCGTTACCGTCTGC  
CCCTGCGCGTGGTGAAACACTTCTACTGGACCTCAGACTCCTGCCCAGGCCTGGCGTGGTGTGCTAACCTTCA  
GGGATAAGGAGATCTGTGCCGATCCCAGAGTGCCCTGGGTGAAGATGATTCTCAATAAGCTGAGCCAA**TGA**AGAG  
CCTACTCTGATGACCGTGGCCTTGGCTCCTCCAGGAAGGCTCAGGAGCCCTACCTCCCTGCCATTATAGCTGCTC  
CCCGCCAGAAGCCTGTGCCAACTCTCTGCATTCCCTGATCTCCATCCCTGTGGCTGTACCCCTTGGTCACCTCCG  
TGCTGTCACTGCCATCTCCCCCCTGACCCCTCTAACCCATCCTCTGCCTCCCTCCCTGCAGTCAGAGGGTCCTGT  
TCCCATCAGCGATTCCCCTGCTTAAACCCTTCCATGACTCCCCACTGCCCTAAGCTGAGGTCAGTCTCCCAAGCC  
TGGCATGTGGCCCTCTGGATCTGGGTTCATCTCTGTCTCCAGCCTGCCCACTTCCCTTCATGAATGTTGGGTTC  
TAGCTCCCTGTTCTCCAAACCATACTACACATCCCACTTCTGGGTCTTTGCCTGGGATGTTGCTGACACTCAGA  
AAGTCCCACCACCTGCACATGTGTAGCCCCACCAGCCCTCCAAGGCATTGCTCGCCCAAGCAGCTGGTAATTCCA  
TTTCATGTATTAGATGTCCCTGGCCCTCTGTCCCTCTTAATAACCCTAGTCACAGTCTCCGCAGATTCTTGGG  
ATTTGGGGGTTTTCTCCCCACCTCTCCACTA

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**FIGURE 1240**

MARLQTALLVVLVLLAVALQATEAGPYGANMEDSVCCRDYVRYRLPLRVVKHFYWTSDSCPRPGVVLLTFRDKEI  
CADPRVPWVKMILNKLSQ

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**FIGURE 1241**

TTAGCAATAAGGCTGGAGAAGGAAAAGCCGGCGCGCCCGCGGCCCGCGCGATTTCCTCGCCGAGCCCGCGTCCCCG  
GCGGCGGGCGGGCTCCGGGGGCGCCCGGGCCGCGGCGGCGCGGCGGCGGAGCTGCGCCTCCGGGCGGGTGAATC  
ATCCCGGCAGACACCAAGAGCCGCGGCAGCAGAGAGGAGCGCTGAAACATGGCTGAAGCGGCCACGGGCTTTCTG  
GAGCAGCTCAAGTCCTGCATAGTTTGGTCTTGGACGTATCTGTGGACCGTGTGGTTCTTCATCGTGCTATTCTTG  
GTCTACATCCTGCGGGTGCCTTTGAAAATCAACGACAACCTTGAGCACAGTGAGCATGTTTTTGAACACATTAAACA  
CCGAAGTTCTACGTGGCCCTAACAGGCACTTCCTCACTAATATCAGGGCTTATTTTGATATTTGAATGGTGGTAT  
TTTCGCAAATACGGAACCTTCATTTCATTGAACAAGTCTCAGTAAGCCACTTGCGCCCCCTTCTGGGAGGGGTGAC  
AACAACCTCTTCCAACAATTCTAATTCCAGTAACGGGGACTCAGATTCCAATAGGCAAAGTGTCTCAGAATGCAAA  
GTATGGCGAAATCCACTAAATTTATTTAGGGGTGCTGAATACAATCGGTATACTTGGGTGACAGGACGAGAGCCT  
CTTACTTACTATGACATGAATCTCTCTGCCCCAAGACCACCAGACATTCTTTACTTGTGACTCGGACCATCTGCGT  
CCCGCAGATGCAATAATGCAGAAAGCCTGGAGAGAGAGAAAACCCCAAGCTAGGATTTCTGCAGCTCATGAAGCC  
TTGGAGATAAATGAGTGTGCAACTGCTTATATTCTCTTGGCTGAAGAGGAAGCAACAACCATTGCTGAAGCAGAA  
AAATTATTTAAGCAGGCCCTGAAGGCTGGAGATGGCTGTTACCGACGCTCTCAGCAGCTACAACATCATGGATCC  
CAGTATGAAGCCCAACATAGACGAGACACCAATGTCTTGGTGTACATCAAAGAAGGCTAGCAATGTGTGCCAGA  
AGACTCGGGAGGACCAGGGAAGCAGTGAAAATGATGAGAGATTTAATGAAGGAGTTCCCCCTTCTGAGTATGTTT  
AATATCCATGAAAACCTTTTAGAAGCCCTTCTGGAACCTACAAGCATATGCTGATGTTTCAGGCAGTCTTAGCAAAG  
TATGATGATATAAGCTTACCAAAGTCAGCAACAATATGCTACACAGCTGCTTTGCTCAAAGCAAGAGCTGTCTCT  
GACAAATTCTCTCCTGAGGCTGCATCTCGGCGGGGGCTGAGCACAGCAGAGATGAATGCAGTAGAGGCCATTTCAT  
AGAGCTGTGGAATTCAATCCTCATGTGCCAAAATACCTACTAGAAATGAAAAGCTTAATCCTACCCCCAGAACAT  
ATCCTGAAGAGAGGAGACAGTGAAGCAATAGCATATGCATTCTTTTCATCTTGACACTGGAAGAGAGTGAAGGG  
GCTTTGAATCTTTTGCAATTGTACGTGGGAAGGCACTTTTCGGATGATCCCTTATCCCTTGAAAAAGGGGCACCTA  
TTTTATCCTTACCCAATCTGTACAGAAACAGCAGACCCGAGAGCTGCTTCCATCTTTCCATGAAGTCTCAGTTTAC  
CCAAAGAAGGAGCTTCCCTTCTTTATTCTCTTTACTGCTGGATTATGTTTCCTTCACAGCCATGCTGGCCCTCCTG  
ACACATCAGTTCCCGGAACCTTATGGGGGTCTTCGCAAAAAGCTTTCCTCAGCACTTTGTTTGCCCCCTTAAACTTT  
GTCATGGAGAAAAGTGGAGAGCATCCTCCCATCCAGTCTGTGGCACCAGCTAACACGGATCTGAGAGAAGCCCTGT  
CCTCCACTCACCTCACCCGCCGCTGCCACCATCTCCTCTGTGCCAACTCCTTGTGGACCGCAAGAAAGCATGACT  
TTGAAAAAGGGAAGCCATTCCGAGATTTTAAATGTTTCATGGACTATTCCATATTAAAAGCTGTTTTTGTGTTG  
TACAAAAA

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**FIGURE 1242**

MACRWSTKESPRWRSALLLLFLAGVYGNALAEHSENVHISGVSTACGETPEQIRAPSGIITSPGWPSEYPAKIN  
CSWFIRANPGEIITISFQDFDIQGSRRCNLDWLTITETYNIESYRACGSTIPPPYISSQDHIWIRFHSDDNISRK  
GFRLAYFSGKSEEPNCACDQFRCGNGKCIPEAWKCNNMDECGDSSDEEICAKEANPPTAAAFQPCAYNQFQCLSR  
FTKVYTCLPESLKCDGNIDCLDLGDEIDCDVPTCGQWLKYFYGTFNPNYPDFYPPGSNCTWLIDTGDHRKVILR  
FTDFKLDGTGYGDYVKIYDGLEENPHKLLRVLTAFDASHAPLTVVSSSGQIRVHFCADKVNAARGFNATYQVDGFC  
LPWEIPCGGNWGCYTEQQRCDDGYWHCPNGRDETNTMCQKEEFPCSRNGVCYPRSDRCNYQNHCPNGSDEKNCFF  
CQPGNFHCKNNRCVFESWVCDSDDDCGDGSDEENCPVIVPTRVITA AVIGSLICGLLLVIALGCTCKLYSLRMFE  
RRSFETQLSRVEAELLRREAPPSYGQLIAQGLIPPVEDFPVCSNPQASVLENLRLAVRSQLGFTSVRLPMAGRSS  
NIWNRIFFNFARSRHSGSLALVSADGDEVVPSQSTSREPERNHTRSLFSVESDDTDTENERRDMAGASGGVAAPL  
PQKVPEPTTAVEATVGACASSSTQSTRGGHADNGRDVTSEPPSVSPARHQLTSALSRMTQGLRWVRFTLGRSSSL  
SQNQSPLRQLDNGVSGREDDDDVEMLIPISDGSSDFDVNDCSRPLLDLASDQGQGLRQPYNATNPGVRPSNRDGP  
CERCGIVHTAQIPDTCLEVTLKNETSDDEALLC

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**FIGURE 1243**

CTCACTGCCACACGCAGCTCAACCTGAGCTACACAGCCAGATGCGAGATGCTTCTCTGCTGATCTGAGTCTGCCT  
GCAGCATGGACCTTGGTCTTCCCTGAAGCATCTCCAGGGCTGGAGGGACGACTGCCATGCACCGAGGGCTCATCC  
ATCCGCAGAGCAGGGCAGTGGGAGGAGACGCT**ATGA**CCCCCATCGTCACAGTCCTGATCTGTCTCAGGCTGAGTC  
TGGGCCCCCGGACCCACGTGCAGGCAGGGACCTCCCCAAGCCCACACTCTGGGCTGAGCCAGGCTCTGTGATCA  
CCCAGGGGAGTCCCGTGACCTCTGGTGTCTAGGGGATCCTGGAGACCCAGGAGTACCGTCTGTATAGAGAAAAGA  
AAACAGCACCTTGGATTACACGGATCCACAGGAGATTGTGAAGAAGGGCCAGTTCCCCATCCCATCCATCACCT  
GGGAACACACAGGGCGGTATCGCTGTTTCTACGGTAGCCACACTGCAGGCTGGTCAGAGCCCAGTGACCCCTGG  
AGCTGGTGGTGACAGGAGCCTACATCAAACCCACCTCTCAGCTCTACCCAGCCCTGTGGTGACCTCAGGAGGGA  
ACGTGACCTCCATTGTGTCTCACAGGTGGCATTGGGCAGTTTATTCTGTGTAAGGAAGGAGAAGATGAACACC  
CACAATGCCTGAACTCACAGCCCCGTACCCATGGGTGGTCCCGGGCCATCTTCTCTGTGGGCCCCGTGAGCCCGA  
GTCGCAGGTGGTCTGACAGGTGCTATGCTTATGACTCGAACTCTCCCCATGTGTGGTCTCTACCCAGTGATCTCC  
TGGAGCTCCTGGTCTAGGTGTTTCTAAGAAGCCATCACTCTCAGTGCAGCCAGGTCTATAGTGGCCCCCTGGG  
AGAGCCTGACCTCCAGTGTGTTTCTGATGTCAGCTACGACAGATTTGTTCTGTATAAGGAGGGAGAACGTGACT  
TCCTCCAGCTCCCTGGCCCCACAGCCCCAGGCTGGGCTCTCCAGGCCAACTTCACCCTGGGCCCCGTGAGCCGCT  
CCTACGGGGGGCCAGTACAGATGCTCCGGTGCATACAACCTCTCCTCCGAGTGGTCCGGCCCCAGCGACCCCTGG  
ACATCCTGATCGCAGGACAGTTCCGTGGCAGACCTTCATCTCGGTGCATCCGGGCCCCACGGTGGCCTCAGGAG  
AGAACGTGACCTGCTGTGTCTAGTCATGGGGCCGTTCCACACTTTCCTTCTGACCAAGGCGGGAGCAGCTGATG  
CCCCCTCCGTCTCAGATCAATACGAATATCCTAAGTACCAGGCTGAATTCCTATGAGTCTGTGACCTCAG  
CCCCTCGGGGACCTACAGGTGCTACGGCTCACTCAGCTCCAACCCCTACCTGCTGTCTCACCCAGTGACTCCC  
TGGAGCTCATGGTCTCAGGAGCAGCTGAGACCTCAGCCCACCACAAAACAAGTCCGATTCCAAGGCTGGAGCAG  
CTAACACCTCAGCCCATCACAAAACAAGACTGCCTCACACCCCCAGGATTACACAGTGGAGAATCTCATCCGCA  
TGGGCATAGCTGGCTTGGTCTCGGTGGTCTCGGGATTCTGCTATTTGAGGCTCAGCACAGCCAGAGAAGCCTCT**T**  
**GAGAT**GCAGCCGGGAGGTGAACAGCAGAGAGAAGAATGTACCCTTCAGAGTGGTGGAGCCTTGGGAACAGATCTG  
ATGATGCCAGGAGGTTCCGGGAGACAATTTAGGGCTGATGTTATCTGGACTGTCTGCCAATCATTTTTTAGAGGGA  
GGAATCAGTGTTGGATTGCAGAGACATTTTCTGGAGTGATCCATGAAGGACCATTAAACATGTGATACCTTTCTC  
TCTATTAATGTTGACTTCCCTTGGTTGGATCCTCT

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**FIGURE 1244**

MTPIVTVLICLRSLGPRTHVQAGTLPKPTLWAEPGSVITQGSPVTLWCQGILETQEYRLYREKKTAPWITRIPQ  
EIVKKGQFPIPSITWEHTGRYRCFYGSHTAGWSEPSDPLELVVTGAYIKPTLSALPSPVVTSGGNVTLHCVSQVA  
FGSFILCKEGEDEHPQCLNSQPRTHGWSRAIFSVGPVSPSRRWSYRCYAYDSNSPHVWSLPSDLLELLVLGVSKK  
PSLSVQPGPIVAPGESLTLQCVSDVSYDRFVLYKEGERDFLQLPGPQPQAGLSQANFTLGPVSRSYGGQYRCSGA  
YNLSSEWSAPSDPLDILIAGQFRGRPFISVHPGPTVASGENVTLLCQSWGPFHTFLLTKAGAADAPLRLRSIHEY  
PKYQAEFPMSPVTSAHSGTYRCYGSLSNPNYLLSHPSDSLELMVSGAAETLSPPQNKSDSKAGAANTLSPSQNK  
ASHFQDYTVENLIRMGIAGLVVLVVLGILLFEAQHSQRSL



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**FIGURE 1245**

GAGGTTGAAGGACCCAGGCGTGTCAGCCCTGCTCCAGAGACCTTGGGC**ATG**GAGGAGAGTGTCGTACGGCCCTCA  
GTGTTTGTGGTGGATGGACAGACCGACATCCCATTCACGAGGCTGGGACGAAGCCACCGGAGACAGTCGTGCAGT  
GTGGCCCGGGTGGGTCTGGGTCTCTTGCTGTTGCTGATGGGGGCTGGGCTGGCCGTCCAAGGCTGGTTCCTCCTG  
CAGCTGCACTGGCGTCTAGGAGAGATGGTCACCCGCTGCCTGACGGACCTGCAGGCTCCTGGGAGCAGCTGATA  
CAAGAGCGAAGGTCTCACGAGGTCAACCCAGCAGCGCATCTCACAGGGGCCAACTCCAGCTTGACCGGCAGCGGG  
GGGCCGCTGTTATGGGAGACTCAGCTGGGCCTGGCCTTCCTGAGGGGCCTCAGCTACCACGATGGGGCCCTTGIG  
GTCACCAAAGCTGGCTACTACTACATCTACTCCAAGGTGCAGCTGGGCGGTGTGGGCTGCCCCTGGGCCTGGCC  
AGCACCATCACCCACGGCCTCTACAAGCGCACACCCCGCTACCCCGAGGAGCTGGAGCTGTTGGTCAGCCAGCAG  
TCACCTTGCAGGACGGGCCACCAGCAGCTCCCGGTCTGGTGGGACAGCAGCTTCCTGGGTGGTGTGGTACACCTG  
GAGGCTGGGGAGGAGGTGGTCGTCCGTGTGCTGGATGAACGCCTGGTTCGACTGCGTGATGGTACCCGGTCTTAC  
TTCGGGGCTTTTCATGGTG**TGA**AGGAAGGAGCGTGGTGCATTGGACATGGGTCTGACACGTGGAGAACTCAGAGGG  
TGCCCTCAGGGGAAAGAAAACCTCACGAAGCAGAGGCTGGGCGTGGTGGCTCTCGCCTGTAATCCAGCACTTTGGG  
AGGCCAAGGCAGGCGGATCACCTGAGGTCAGGAGTTCGAGACCAGCCTGGCTAACATGGCAAAACCCATCTCTA  
CTAAAAATACAAAAATTAGCCGGACGTGGTGGTGCCTGCCTGTAATCCAGCTACTCAGGAGGCTGAGGCAGGATA  
ATTTTGCTTAAACCCGGGAGGCGGAGGTTGCAGTGAGCCGAGATCACACCACTGCACTCCAACCTGGGAAACGCA  
GTGAGACTGTGCCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1246**

MEESVVRPSVFVVDGQTDIPFTRLGRSHRRQSCSVARVGLGLLLLLMGAGLAVQGWFLQLHWRLGEMVTRLPDG  
PAGSWEQLIQERRSHEVNPAAHLTGANSSLTGSGGPLLWETQLGLAFLRGLSYHDGALVVTKAGYYYIYSKVQLG  
GVGCPLGLASTITHGLYKRTPRYPEELELLVSQQSPCGRATSSSRVWWDSSFLGGVVHLEAGEEVVVRVLDERLV  
RLRDGTRSYFGAFMV

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**FIGURE 1247**

TTTTTTTTTCCAGCCAAGCAGCAGCTTTATTAGTGGTGCTGGGTTCTTCCCATACCCTACAGCGTGCTCGGAAGC  
ATTCGCGCGCCGGGCTGCCAGACACCTGCGCCCTTCTGCAGCCGCCCCGCCGATCCGCCGCCGAGCCCCCAGCA  
**TG**TCGGGCCCAGACGTGAGACGCCGTCCGCCATCCAGATCTGCCGGATCATGCGGCCAGATGATGCCAACGTGG  
CCGGCAATGTCCACGGGGGGACCATCCTGAAGATGATCGAGGAGGCAGGCGCCATCATCAGCACCCGGCATTGCA  
ACAGCCAGAACGGGGAGCGCTGTGTGGCAGCCCTGGCTCGTGTGAGCGCACCGACTTCTGTCTCCCATGTGCA  
TCGGTGAGGTGGCGCATGTGAGCGCGGAGATCACCTACACCTCCAAGCACTCTGTGGAGGTGCAGGTCAACGTGA  
TGTCGCGAAAACATCCTCACAGGTGCCAAAAAGCTGACCAATAAGGCCACCCTGTGGTATGTGCCCCCTGTCGCTGA  
AGAATGTGGACAAGGTCCTCGAGGTGCCTCCTGTTGTGTATTCCCGGCAGGAGCAGGAGGAGGAGGGCCGGAAGC  
GGTATGAAGCCAGAAGCTGGAGCGCATGGAGACCAAGTGGAGGAACGGGGACATCGTCCAGCCAGTCTCAACC  
CAGAGCCGAACACTGTGAGCTACAGCCAGTCCAGCTTGATCCACCTGGTGGGGCCTTCAGACTGCACCCTGCACG  
GCTTTGTGCACGGAGGTGTGACCATGAAGCTCATGGATGAGGTGCGCGGGATCGTGGCTGCACGCCACTGCAAGA  
CCAACATCGTCACAGCTTCCGTGGACGCCATTAATTTTCATGACAAGATCAGAAAAGGCTGCGTCATCACCATCT  
CGGGACGCATGACCTTCACGAGCAATAAGTCCATGGAGATCGAGGTGTTGGTGGACGCCGACCCTGTTGTGGACA  
GCTCTCAGAAGCGCTACCGGGCCGCCAGTGCCTTCTTCACCTACGTGTCGCTGAGCCAGGAAGGCAGGTGCTGTC  
CTGTGCCCCAGCTGGTGCCCGAGACCGAGGACGAGAAGAAGCGCTTTGAGGAAGGCAAAGGGCGGTACCTGCAGA  
TGAAGGCGACGATCAGGGCCACGCGGACGCTCAGCCCTAGACTCCCTCCTCCTGCCACTGGTGCCTCGAGTAGCC  
ATGGCAACGGGGCCAGTGTCCAGTCACTTAGAAGTTCCCCCTTGGCCAAAAACCAATTCACAT**TG**AGAGCTGG  
TGTGTCTGAAGTTTTCGTATCACAGTGTTAACCTGTACTCTCTCTGCAAACCTACACACCAAAGCTTTATTTA  
TATCATTCAGTATCAATGCTACACAGTGTTGTCCCAGCGCCGGGAGGCGTTGGGCAGAAACCTCGGGAATGC  
TTCCGAGCACGCTGTAGGGTATGGGAAGAACCCAGCACCCTAATAAAGCTGCTGCTTGGCTGGAAA

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**FIGURE 1248**

MSGPDVETPSAIQICRIMRPDDANVAGNVHGGTILKMIEEAGAIISTRHCNSQNGERCVAALARVERTDFLSPMC  
IGEVAVHVS AEITYTSKHSVEVQVNVMS ENILTGAKKLTNKATLWYVPLSLKNVDKVLEVPPVVYSRQEQEEEGRK  
RYEAQKLERMETKWRNGDIVQPVLNPEPNTVSYSSLIHLVGPSDCTLHG FVHGGVTMKLMDEVAGIVAARHCK  
TNIVTASVD AINFHDKIRKGCVITISGRMTFTSNKSMEIEVLVDADPVVDSSQKRYRAASAFFTYVSLSQEGRSL  
PVPQLVPETEDEKKRFEEGKG RYLQMKATIRATRTLSPRLPPPATGASSSHGNGPSVQSLRSSPLGQKPN SH

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**FIGURE 1249A**

GGAGGGCCTCGGCTTTCCAGGGACAGAGGCCAACTCCAGGACGCCCCAGCTGGCCCAGCCCCCTCCTCTTTCCCT  
CAAGGCTGCAGGAGGTTCGGAAAGGCAGTCCTGGTAGAGGCCTGTCCTGGGCTCCAGGTTGGCCCCCTGAGGGTGG  
CCCTCCTCATGCCGGCTTCAAGACTGAGGGACAGGGCAGCCAGTTCAGCCTCGGGATCCACCTGTGGCTCCATGT  
CCCAGACGCACCCTGTGCTGGAGAGCGGCCTCCTGGCATCTGCCGGCTGCTCCGCACCCCCGGGGTCCCAGGAAGG  
GCGGCCCCAGCCCCAGTGGACAGGAAAGCTAAGGCCCTCAGCGATGCCGGACTCCCCAGCGGAGGTGAAGACGCAGC  
CCCCGTCCACACCCCCCAGCATGCCGCCCCACCGCTGCCGCATCCCAGGGGGCCACACGCCCCCCCCCTCCTTCA  
CGCCACACACACATCGAGAGGACGGGCCTGCGACGCTGCCCCACGGCCGTTTTTCATGGCTGCTTAAATGGTCTA  
TGGTCTGTCTCTTGATGAACGGCAGCAGCCACTCACCAACAGCCATCAATGGTGCACCGTGCACACCCAACGGCT  
TCAGCAATGGCCCCGGCCACCTCGTCCACAGCCTCCTTGTCACACAGCACCTGCCCCAGCCTGCGGGGCCCGGC  
AGCTCAGCAAGCTCAAGCGCTTCTCACCACACTGCAGCAGTTTGGCAGCGACATCTCCCCAGAGATTGGGGAGC  
GCGTGCACACACTGGTGTGGGCCTGGTGAACCTGACATTGACGATCGAGGAGTTTCATTCCAAGCTTCAGGAGG  
CCACCAACTTCCCTCTGCGGCCGTTTGTATTCCCTTCCTGAAGGCAAACCTGCCCTTGCTGCAGCGGGAGCTCC  
TGCACTGTGCACGCCTGGCCAAGCAGACGCCCCGCCAGTACTTGGCCCAGCATGAGCAGCTCCTGCTGGACGCCA  
GCGCCTCCTCCCCCATCGACTCCTCAGAGCTGCTACTGGAAGTCAACGAGAACGGCAAGAGGAGGACGCCCCGACA  
GGACCAAAGAGAACGGGTGAGAACGCGACCCGCTGCACCCCGAGCACCTCAGCAAACGGCCATGCACCCTGAACC  
CTGCCCAGCGCTACAGCCCCAGCAAACGGGGCCACCGCAGCCACACCGCCGCCGCACTACCGCCTGGAGGACATAG  
CCATGGCCCCACCACTTCCGAGATGCCTACCGCCACCCAGACCCCCGGGAGCTACGAGAGCGCCATCGGCCGCTTG  
TGGTGCCTGGGTCCCGGCAGGAAGAAGTGATCGACCACAAGCTCACAGAGCGTGAGTGGGCAGAAGAGTGGAAGC  
ACCTCAACAACCTCCTGAACTGCATCATGGACATGGTGGAGAAGACGCGGCGCTCGCTCACGGTGTGCGCAGGT  
GCCAGGAGGCCGACCGCGAGGAGCTCAACCACTGGGCGCGGCGCTACAGCGACGCCGAGGACACAAAGAAGGGCC  
CCGCTCCCCGCCGCGGGCCCGCCCCGCGCAGCAGCTCCGCCGGTCCCGAAGGGCCTCAGCTAGACGTGCCTCGCGAGT  
TCCTGCCGAGGACCCTCACCGGCTACGTGCCTGAGGACATCTGGAGGAAGGCTGAAGAGGCCGTGAATGAGGTGA  
AGCGGCAGGCCATGTGCGAGCTGCAGAAAGCCGTGTGCGACGCGGAGCGCAAAGCGCACGAGCTCATCACCACGG  
AGCGTGCCAAGATGGAGCGGGCCCTGGCCGAGGCGAAGCGGCAGGCCTCCGAGGACGCCCTGACGGTCACTAACCC  
AGCAGGAGGACTCCAGCGAGAGCTGCTGGAACCTGCGGGCGGAAAGCCAGTGAGACGTGCAGCGGCTGCAACGCGG  
CACGCTACTGCGGGTCTTCTGCCAGCATCGGGACTGGGAGAAGCATCACCACGTGTGTGGCCAGAGCCTGCAGG  
GCCCCACAGCCGTGGTGGCCGACCCGGTGCCTGGACCGCCGAAGCCGCCACAGCCTGGGCCCCCTCCTGCTG  
TGGGTGCTGCCAGCCCCAGCGAAGCCGGCTCTGCGGGGCTTCTCGCCCCGGCTCCCCAGCCACCTGGCCCCAC  
TGGACACCGTGCCCCGCTTGACCCCCACTGGCCCCCTGGCCTGCCGGACACAGCACCGTGCCAACCCACCCAGCTCC  
AGGCCCCACCGGATGCTGTGCCTGGCCTCCGATGCCTGGCCTGCCAGACACTGCGCCCCGCTGACCTGKGGGAGC  
CGACCAATTAGTCACTGCTGCTACTGCCCCCTCTCGAAAGAAGACACAGAACCAACAAAACCGCATTCACTGCAC  
CTGCCTCAGCTACCTAATGATTCCGCGCGGAGACCTCCTGACAACGTCTCTTCAAGCATCCTCAGAAGCCTCGAC  
TGAGCTTTAGACAGCAGAGCAGATGCCGCGAGGCGGGCGGCTCTGCCACCTCTCTTTTCTCTCTGTCTGTCTC  
TCCCCCTCTGTCTTCTCTATCCTCTCTCTCTATGACTATCACACACTTCTCTTCAATGAAAAAATCGAATTG  
GTGGCTTATATTTTCAGCAAAGAATTTGGGGGGTTTTGTGTGTTGGCAAAGAGCTACTCAGAAATGGACAAAG  
AAAACGGGGGGGTTCTCCCCCTCCTGATTAAAAAGGGAGAAAGAAACTGCGATTTTATAGCTGGAGATCTGAAC  
CCAGCTGTGCCCCCTCCCCCAGGGGCGTGAGGCTGATCAGCGAAGACGGGAGGAAAGATTTGATTTCTGACTCAA  
GATGCATTTTTGGTTTCAGATTTTTTTTTCTGTAATGTTAACTCTTTGGCTTTAAGTAAAAATCCAAAAAGTT  
TTTTTAAAAAAGCAAAGGAAGCATACTTGTGAACTACCTTGCTAGCTAGCCAGCCAAGGATACCGGACACACCTC  
TGCTCCAAAGGAAATCCAAAAAGCAAACACAAGAAATCAAAATCCAAATTTGTTTGTCACTGCCAAAGTATTT  
TTTTCACTGTTTCACTTGCTCTTGGGTTTGGTTTGGATGTGGGTCTTTTTCTCTTCTGTTCTGATTTTGTGTTG  
GTGTGCGGATATTTGGGTGCAGAGGGTTTTGTGCCAGTTAGAAGCGACTTTTGTCTCTTCTGCGTAGGCGTTGG  
TGCGTCCGCCGCGTGTGCGTGGTCCGTGTGCCGTTGCTCCGGCCTGCGTCTCCATATGTGTAGGAAAGGACACGC  
CGTCTGTCTCACGCCCCCTGTGACTTTTTCATATTTCCGTTTTCCACTTGTGGAAAAAAGTGCTAAAGTTTTCT  
TCCCAGAGAGAGCATAATTCCGAAACAAAACCTGTGACAATCTTTGGGTTGATTCTCGACTGCTTTTCGAGCATG  
CGGAGCCAGCAGGCCTCCCTGAAACACTGCTTCTCGGCCAGCCCGTCTCTCTACCTCTCTCTCTCCGCGCCC  
TCCGACCTCTCTCGGCCCCCTCACCCAGCTCCGACCTCTCTCAGCCCCATCGCCCCAACTCCAACCTCTCGGCC  
CCATCGCCCCACCGCAGCTACTCCCCTTTCTTCCAACTTTTGCAGAAAAACAAAAAACTACAAACAAAAGCA

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**FIGURE 1249B**

GCCCTCTGCCTCCTCCCCAGGGAAGACCCTGACCGTGTACATAGCCCTGGTGCTCCTGCCCAGCCACCCCTCAGA  
TGCGTTCGCCTCTGGCCCTGGGGTGTGTCTCGGTGACGTTTTCTATCAGACGTGCTCCCTCCCATCCTCCAGCCC  
TGCCCACCCCTCCCTCCACTCCTCTCAACTGCCTCAGCGATTTCAAGAAGGAAATAAAGGGATAAAGAAATTCATG  
CTTGCACCGAGTACAAGGACAGACAGCAGGCACGGCCCGCAGCCTGGCATCTGTGCGTGTGGCGTGGCCCGTGGC  
TTGGCATCTGTGTGCGTGGTGTGGCCCGTGGCCTGGCATCTGTGTGCGTGGCGTGGCCCGTGGCCTGGCATCTGT  
GTGTGTGGCGTGGCCCGTGGCCTGGCATCTGTGTGCGTGGCGTGGCCCGTGGCCTGGCATCTGTGTGCGTGGCTA  
TCAGGAGTTCTAGGAACTCAGTGCAATACGGGAGTGACCCAGCTACTGAACCAGCCACGAACAGCCCGCCAGAGG  
CCTGAAGCTGAGCGTGTACGTTAATGTGAATGTATATAGTCTTTGCAGAGGTCCAAATGATATTCATGATGGTAA  
TAAACGAGATGTTTGCCAAAT

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**FIGURE 1250**

MPASRLRDRAASSASGSTCGSMSQTHPVLESGLLASAGCSAPRGPRKGGPAPVDRKAKASAMPDSPAEVKTQPRS  
TPPSMPPPPPAASQGATRPPSFTHPHTHREDGPATLPHGRFHGCLKWSMVCLLMNGSSHSPTAINGAPCTPNGFSN  
GPATSSTASLSTQHLPPACGARQLSKLKRFLTTLQQFGSDISPEIGERVRTLVLGLVNSTLTIEEFHSLKQEATN  
FPLRPFVIPFLKANLPLLQRELLHCARLAKQTPAQYLAQHEQLLLDASASSPIDSELLEVNENGKRRTPDRTK  
ENGSERDPLHPEHLSKRPCTLNPAQRYSPSNGPPQPTPPPHYRLEDIAMAHHFRDAYRHPDPRELREHRPLVVP  
GSRQEEVIDHKLTEREWAEWKHLNLLNLCIMDMVEKTRRSLTVLRRQCQADREELNHWARRYSDAEDTKKGPAP  
AAARPRSSSAGPEGPQLDVPREFLPRTLTYVPEDIWRKAEEAVNEVKRQAMSELQKAVSDAERKAHELITTEA  
KMERALAEAKRQASEDALTVINQQEDSSESCWNCGRKASETCSGCNAARYCGSFCQHRDWEKHHHVCGQSLQGPT  
AVVADPVPGPPEAAHSLGPSLPVGAASPSEAGSAGPSRPGSPSPGGLDTPVR

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**FIGURE 1251A**

GAGAGACACGAATATGTTTTAGCCGCAACAGGCTGCGTTTCAGCCGGAAGAGTGAAAGGGCACCTTGAAAACGCA  
AGTTT**ATGA**ATATGTTTCTGTACTTTTACAGACCATCATCAAAGAGGGGATGCTGACCAAAACAGAACAAATTCATTCC  
AGCGATCAAAAAGGAGATACTTTAAGCTTCGAGGGCGAACGCTTTACTATGCCAAAACGGCAAAAGTCAATCATAT  
TTGATGAGGTGGATCTGACAGATGCCAGCGTAGCTGAATCCAGTACCAAAAACGTCAACAACAGTTTACGGTCA  
TAACTCCATGCAGGAAGCTCATCTTGTGTGCTGATAACAGAAAAGAAATGGAAGATTGGATTGCAGCATTAAGA  
CTGTGCAGAACAGGGAGCACTTTGAGCCCCACCCAGTACAGCATGGACCACTTCTCAGGGATGCACAATTGGTACG  
CCTGTTCCACGCGAGGCCGACCTACTGCAATGTGTGCCGTGAGGCTCTGTCTGGGGTCACGTGCGACGGGCTGT  
CCTGCGAGGTGTGCAATTTAAGGCCCCACAAGCGCTGTGCTGTGCGTGCAACCAATAACTGCAAGTGGACCACAC  
TGGCCTCGATCGGGAAGGACATCATTGAAGATGCAGATGGGATTGCAATGCCCCACCAAGTGGTTGGAAGGAAACC  
TACCTGTGAGCGCCAAGTGCATGTGTGCGACAAGACCTGTGGCAGTGTGCTGCGCCTGCAGGACTGGCGCTGCC  
TCTGGTGAAGGCCATGGTTTACACATCGTGTAAAGAATCCTTGCTGACCAAGTGGCCACTTGGCCTGTGCAAAG  
TGTCAGTCATCCACCCACGGCTCTCAACAGCATCGACTCCGATGGGTTCTGGAAGGCCAGCTGTCTCTCTTCTT  
GCACAAGCCCACTGTTGGTCTTCGTCAATTCAAAAAGTGGGGACAACCAGGGTGTGAAGTTCCTCAGAAGATTCA  
AACAGCTACTAAACCCCGCCAGGTCTTCGACCTCATGAACGGAGGCCACACCTCGGCTTACGGTTATTCCAGA  
AGTTTGACACATTCCGGATTCTGGTTTGTGGCGGGGATGGAAGTGTGGCTGGGTCTCTCCGAAATCGACAGCC  
TCAACCTTCATAAACAGTGTGAGCTGGGAGTGTGCCGCTCGGCACAGGGAACGACTTGGCCCGAGTACTGGGCT  
GGGGCTCAGCCTGCGATGACGACACCCAGCTCCCCCAGATCTTGAGAAGTTGGAGAGAGCCAGCACCAAGATGC  
TGGACAGGTGGAGCGTCATGGCATAAGGCAAGCTCCCCCGGCAGGCTCCTCCTCTACCGTCAACGAAGACT  
TCAGCGAGGATTCCGAGGTACAGCAGATTCTCTTCTATGAAGACTCGGTTGCAGCCACCTTTCTAAAAATCCTCA  
CCTCGGACCAGCACTCGGTGGTCATCTCCTCGGCCAAAGTGCTCTGTGAGACGCCGAAGGACTTCGTGGCAGGGG  
TGGGGAAGGCCTATGAGAAGACGACCGAGAGCTCGGAGGAGTCAGAGGTATGGCCAAGAAGTGCTCTGTCTTGA  
AAGAGAAGCTGGATTCCCTTCTCAAGACCTTGGACGATGAGTCCAGGCCTCGTCTCTCTGCCCAACCCGCCCC  
CCACCATTGCCGAGGAGGCTGAAGATGGAGATGGGTGCGGCAGCATCTGCGGTTCCACCGGAGACCGCTTGGTGG  
CATCAGCTTGCCCGGCCCGGCCGAGATATTCCGGCCTCGAGAACAGCTCATGCTGAGAGCCAACAGCCTGAAGA  
AAGCAATTTCGTAGATCATAGAACACACAGAAAAAGCTGTGATGAGCAGAATGCCAGACCCAGGAGCAGGAGG  
GCTTCGTCTTGGGCTCTCTGAGTCAGAGGAGAAGATGGACCACAGAGTGTGCCACCACTGTCCACAGCGAGA  
GCTTCGGGGTCCCCAAGGGGAGGAGCCAGCGCAAAGTGTGCAATCTCCGTGTGAAAAGCTGATCAGCAAAGGGA  
GTCTGTCCCTAGGCAGTTCTGCTTCCCTTCCGCCCCAGCCGGGAAGCCGGGACGGCCTGCCTGCGCTCAACACCA  
AGATCCTGTACCCAAATGTCCGGGCTGGAATGTCTGTTTCTTACCCGGTGGCTCAGTCATCAGTCGCTGTAA  
TTAATGCTGATCCCTTCAACTCTGAACCAGAAACCTAGAGTATTACAGGAGAAATGTGTGATGAACAACCTATT  
TTGGCATTGGCCTGGATGCGAAGATATCCCTGGACTTTAACAACAAGCGCGATGAGCACCCAGAGAAGTGCAGGA  
GCCGAACCAAGAACATGATGTGGTATGGAGTTCTTGAACCAAAGAGTTGCTGCACAGAACCTACAAGAACCTGG  
AGCAAAAGGTCTTGTGAGTGTGACGGCGACCCATCCCACTCCCACTCAGGGAATTGCTGTCTTAAACA  
TTCCAGCTATGCCGGAGGAACCAACTTCTGGGGGGGTACCAAGGAAGATGATACTTTCGAGCTCCATCATTCG  
ATGACAAGATTCTGGAGGTGGTCGCCGTGTTCCGCGAGCATGCAGATGGCCGTCTCTCGAGTCATCAGGCTACAGC  
ATCATCGGATCGCCAGTGTGCGACGGTGAAGATCTCCATCCTTGGGGATGAGGGCGTGCCTGTGCAGGTGGACG  
GAGAGGCCTGGGTCCAGCCGCCAGGGTACATTCCGATTGTCCACAAGAACCAGGACAGACACTGACCAGAGACA  
GGGCATTTGAGAGCACCTGAAGTCTTGGGAAGACAAGCAGAAGTGCAGGTGCCCCGCCCTCCATCCTGTTCCC  
TGCACCCGGAGATGCTGTCTCGAGGAGGAGGCCACCCAGATGGACCAGTTTGGGCAGGACAGGGGGTCTCATTC  
ACAGTATCCGAGAAATAGCTCAGTCTACCCGGGACATGGAGCAGGAAGTGGCCACGCGCTCAATGCCAGCTCCA  
AGTCCATGGACCGTGTGTATGGCAAGCCCAGAACACAGAGGGGCTCAACTGCAGCTTCGTCTTGGAAATGGTGA  
ATAACTTCAGAGCTCTGCGCAGTGAGACGGAGCTGCTGTCTGGGAAGATGGCCCTGCAGCTGGATCCGCTCAGA  
AGGAGCAGCTGGGGAGTGTCTTGGCGAGATGGACCGACAGCTCAGGAGGCTGGCAGACACCCCGTGGCTCTGCC  
AGTCCGCGAGACCCGGCGACGAAGAGAGTGTGATGCTGGATCTTGCCAAGCGCAGTCGCGAGTGGTAAATTCGCC  
TCGTGACCAAGTTTTAAAAAGGAGAAAAACAACAAGAACAAAGAAGCTCACAGTAGCCTGGGAGCCCCGGTTACCC  
TCTGGGGGACAGAGGAGGTTGCTGCCTGGCTGGAGCACCTCAGTCTCTGTGAGTATAAGGACATCTTACACGGC  
ACGACATCCGGGGCTCTGAGCTCCTGCACCTGGAGCGGAGGGACCTCAAGGACCTGGGCGTGACCAAGGTGGGCC  
ACATGAAGAGGATCCTGTGTGGCATCAAGGAGCTGAGCCGAGCGCCCCCGCGTCGAGGCC**TAG**CCTCTGTCTCT



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**FIGURE 1251B**

CTCAGCCTGTGGCCTCCACATCCCCGCCGCCGAGGCCTAGCCTCCGCCCTCTCAGCCTGTGGCCTCTGCGCCTCC  
TGCCACTGAGGCCCTGGGCAGATGCTGCAGCCCCGCCCTTCTCATGGTGCTACTTCTCTGTGCTACAGAAA  
GCCTCCGTGACACCGTCCACCAGAGCTCTGGGGTCTCGAACATAACAACACAGCTACCTTTGAAACAACACTTTC  
TCCAGCTCAGAGTCACCTGGGGCAGATGTGTGTCACGGCCACTCAGCTCTCGCCCGCCTGTGCTGTGGGCCAGGGAA  
TCCAGCGGCGTCTGGCCTCCTGGGCAGTGTGCTGGCCTCGTGCTTGGATTGTCCCGGGGGCTCCTCTCCGTG  
TGTCTTCTGTGGCCGCACCGTGTGGCTCCGCTCCTGGCCCCCAGCCAGTTCTCAGAAACGTGGCTGGGGCCCAG  
CACAGCAGCCTGCAAGGGCCCCCTGTTTGTGATGCAGCTTTTGTGTAACAAAAATCGTGCTCTTTCTGGTTTGA  
AAGTAGCATGGATGTTTCCAGTCTTGTGATTGTAATTTGACGTGAAGAGAAAAAACATTCTCTCGCTGAGC  
CAAGGCAGCGGGTGTGTTTCCAGGCGGGAGCCCTCCCTGGGTGTACAGGTCCTGTGCTCCTCCCTCCTCCAT  
CCTCTCTCTCCCGCTCCTCCTCCCCCACTGTGGGCTGGGGACGCCTGCCTTCTGTCTCCGGACGCTCTAGGC  
GAGTTCAGCTTGGGGTGTGAGTGAGACAGCTTGCCAGCTGCATCCCTGCAGACAGAGGATGTGTGTCCACATGAG  
TGTTTCTGTGTGGGAAATGCTTCTGGCTCTGGGAAACTTTTTCTGCCCATTCTGTGGTTCCAGGGAGCGTGGC  
CCTGGTGCAGGGGTGGTTTGACCTCTTCAGCCCGTCCGGTGGCCTGGACGGAGGCTCTCTGAGTGTCTGCCCTG  
CGATGGCTTCTGTGCGCTGCTGCTGGGGCTGATGTGCTGGAGGTGCTGGCAGGGACTCTGATTTGGTGGTCCG  
CGCTGCCCTGCCCCTGCCTCTGTCTGGCTCTGAACTAGTAGATGATGGTGCCAGAGGGCAGGGAGCTCGCCTGG  
GGAGAGGGCTGTGCCCCGTAGGGACAGTGCCAGGTGAAGGATGCCCTGGTCTCCAGGGCACTGACTTTGCCC  
TTTTTTCCCGTTGATAGTCATGGCTCAGAGGTGCTTGTAATGTCTTGGAAGAGGTTTCTGTAAACCCTGCCCT  
GGTGTGAGGAGGAAATGGCTCTGGCCTGGCTGCCTGGCGTGGCTTCTCTTTGGCTCCCAAAGAGAAGGACAGTGT  
TGGGAGTATCTGCCGTGGCTTCTCTTTGGCTCCCAAAGAGAAGGACAGTGTGGGAGTATCTGCCGGCGCTGTCC  
AGGTCTTTAGTCAGCGTCACTCCATCTGATGTGCAGAACTGGGCTGCACCTGCGGGGGTGGGCATAGACGGG  
CTGGGTCTGCAGCAGCCCTGGTCTGAGCAGGCGGCAGTGAACAGCACTGGCCACCTCCCACTCACAGCCCT  
CTGTCCCCCTCTGCAGTGCACCCAGGTGGCCCTCTGCGTGCTTTGGGTGCTCCCTCTCGTGGTCTGTTCTGGCC  
CGAGGCCCTTAGAGTATGGAGGCTGAGCCAGGCCTTGGGTTTCCCCAGCACAGCCTCCTGTGCTGCATGCACGT  
GTTGGGATTTTTGGATGAAGACTCTCCACGCTCTGTTGGTGGACTTAGCTGCCTCACTGGAGATTGTGGGTGGA  
AGGTGGTTGTATGTTACCTTTACCACCTCTCATTGTTTTTCCCCAGAACATTGTAGATGGGGGTGGCAGAGGGAG  
AAATATGCCAGCCACGGCAGTCGCTTGGTTTCCAGGTGGAATGGGCTAACACAGGAGATGATGGGAACCTGTCC  
CGCAGTCCCTGCATGACCATTGGCCCTGCTGGCCTGGCGATGTGGGCATCCTGGGGTTCTTAGGGTCCCAGAACA  
AGCCCCAGGCAAGCTGGAACCTGGGTGGGGAGGGGACATGAGGAGGATAAACAGCTGACTGTGGCTTCAAGGACA  
TCAGGGCCACCCCAAGTCCTCAGTGTCTACTCCTGGCAAGATTGGGTTTGGATCAAAAGTGTAAATTAATA  
TGTTGTCAGTGATTAGAACAACACTGTTTACATAAAAACCATTTTTCTAATTCTAACAAAGTTAGAATGTGAGGAA  
GGAATGAACATGAGTGTTTAGGAACCTGCCCTTTGGTGCTGGGCTGGCGTCCCGCACTGGGGTGTCTCGCTGTC  
TGGGGGCTGCTCTGCTTCCCCGGCCAGGTCCCCTTGTGGTGTGTCAGACGGGCCTCATGGTCTGCTGTGCAGA  
GAGAGGCAGGAAGGATCCCTGAAGAGTCTTGGAGAAAAGGTTCTGTGCCCTCAGGTGGGGCTTACCCCTCGTAT  
TTATAATCTTAATTTATATAGTGACCACCGTGGAACAAACGCCTCTTGATTGTATGTACATAGTCCATACCT  
GAGTGCTGTACATAAGTTGTTCTGTGTATAAATAAAACAAGCCTGTTTTTGATCTTC

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**FIGURE 1252**

MNMFYLFQTIIEGMLTKQNNFQRSKRRYFKLRGRTLYYAKTAKSIIFFDEVDLTDASVAESSTKNVNNSTVIT  
PCRKLILCADNRKEMEDWIAALKTVQNRHFEPYQYSMDHFGSMHNWYACSHARPTYCNVCREALSGVTSHGLSC  
EVCKFKAHKRCAVRATNNCKWTTLASIGKDIIEDADGIAMPHQWLEGNLPVSAKCTVCDKTCGSVLRQLQDWRCW  
CKAMVHTSCKESLLTKCPLGLCKVSVIPPTALNSIDSDGFWKASCPPSCTSPLLVFVNSKSGDNQGVKFLRRFKQ  
LLNPAQVFDLMNGGPHLGLRFLQKFDTFRILVCGGDGSGVWVLSEIDSLNLHKQCQLGVLPPLGTGNDLARVLGWG  
SACDDDTQLPQILEKLERASTKMLDRWSVMAYEAKLPRQASSSTVTEDFSEDSEVQQILFYEDSVAHLSKILTS  
DQHSVVISSAKVLCETPKDFVARVGKAYEKTTESESESEVMAKKCSVLKEKLDLKLTLDDSQASSSLPNPPPT  
IAEEAEDGDGSGSICGSTGDRLVASACPARPQIFRPREQLMLRANSLKKAIRQIIIEHTEKAVDEQNAQTQEQEGF  
VLGLSESEEEKMDHRVCPPLSHSESGVPGKRSQRKVSQKSPCEKLISKGSLSLGSSASLPPQPGSRDGLPALNTKI  
LYPNVRAGMSGSLPGGSVISRLLINADPFNSEPETLEYEYTEKCMNNYFGIGLDAKISLDFNNKRDEHPEKCRSR  
TKNMMWYGVLTGKELLHRTYKNLEQKVLLCEDGDP SHSPVLQGIAVLNIPSYAGGTNFWGGTKEDDTFAAPSFDD  
KILEVVAVFGSMQMAVSRVIRLQHHRIAQCRTVKISILGDEGVPVQVDGEAWVQPPGYIRIVHKNRAQTLTRDRA  
FESTLKSWEKQKCEVPRPPSCSLHPEMLSEEEATQMDQFGQAAGVLIHSIREIAQSHRDMEQELAHAVNASSKS  
MDRVYGKPRTEGLNCSFVLEMVNNFRALRSETELLSGKMALQLDPPQKEQLGSALAEMDRQLRRLADTPWLCQS  
AEPGDEESVMLDLAKRSRSGKFRVLTKFKKEKNKNKEAHSSLGAPVHLWGTEEVAAWLEHLSLCEYKDIFFTRHD  
IRGSELLHLERRDLKDLGVTKVGHMKRILCGIKELSRSAPEVA

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**FIGURE 1253**

CGTGCACCCTGAGCCGGAGCTGCCCAGTCGCCGCGGGACCGGGGCCGCTGGGGTCTGGACGGGGGTGCCCATGAT  
CCGCTTTATCCTCATCCAGAACCGGGCAGGCAAGACGCGCCTGGCCAAGTGGTACATGCAGTTTGATGATGATGA  
GAAACAGAAGCTGATCGAGGAGGTGCATGCCGTGGTCACCGTCCGAGACGCCAAACACACCAACTTTGTGGAGGT  
CTTAAACGAATATTTCCACAATGTCTGTGAACTGGACCTGGTGTTCAACTTCTACAAGGTTTACACGGTCGTGGA  
CGAGATGTTTCCTGGCTGGCGAAATCCGAGAGACCAGCCAGACGAAGGTGCTGAAACAGCTGCTGATGCTACAGTC  
CCTGGAGTGAGGGCAGGCGAGCACCCACCCCGGCCCGGCCCTCCTGGAATCGCCTGCTCGCTTCCCCTTCCC  
AGGCCCCGTGGCCAACCCAGCAGTCCTTCCCTCAACTGCCTAGGAGGAAGGGACCCAGCTGGGTCTGGGCCACAAG  
GGAGGAGACTTCACCCCACTTCCTCTGGGCCCTGGCTGTGGGCAGAGGCCACCGTGTGTGTCCCGAGTAACCGTG  
CCGTTGTCGTGTGATTCCATAAGCGTCTGTGCGTGGAGTCCCCAATAAACCTGTGGTCCTGCCTGGC

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**FIGURE 1254**

MIRFILIQN RAGKTRLAKWYMQFDDDEKQKLIEEVHAVVTVRDAKHTNFVEVLNEYFHNVCELDLVFNFYKVYTV  
VDEMFLAGEIRETSQTKVLKQLLMLQSLE

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**FIGURE 1255**

AGCAGAGGGGCTGAGACCAAACCAGAAACCTCCAATTCTCATGTGGAAGCCCATGCCCTCACCTCCAACATGAA  
AGCCTCTGCAGCACTTCTGTGTCTGCTGCTCACAGCAGCTGCTTTCAGCCCCCAGGGGCTTGCTCAGCCAGTTGG  
GATTAATACTTCAACTACCTGCTGCTACAGATTTATCAATAAGAAAATCCCTAAGCAGAGGCTGGAGAGCTACAG  
AAGGACCACCAGTAGCCACTGTCCCCGGAAGCTGTAATCTTCAAGACCAAACCTGGACAAGGAGATCTGTGCTGA  
CCCCACACAGAAGTGGGTCCAGGACTTTATGAAGCACCTGGACAAGAAAACCCAAACTCCAAAGCTTTTGAAACATT  
CATGACTGAACTAAAAACAAGCCATGACTTGAGAAACAAATAATTTGTATACCCTGTCCTTTCTCAGAGTGTTTC  
TGAGATTATTTTAATCTAATTCTAAGGAATATGAGCTTTATGTAATAATGTGAATCATGGTTTTCTTAGTAGAT  
TTTAAAAGTTATTAATATTTTAATTTAATCTTCCATGGATTTTGGTGGGTTTTGAACATAAAGCCTTGGATGTAT  
ATGTCATCTCAGTGCTGTAAAACTGTGGGATGCTCCTCCCTTCTCTACCTCATGGGGTATTGTATAAGTCCTT  
GCAAGAATCAGTGCAAAGATTTGCTTTAATTGTTAAGATATGATGTCCCTATGGAAGCATATTGTTATTATATAA  
TTACATATTTGCATATGTATGACTCCCAAATTTTCACATAAAATAGATTTTGTAAAAA

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**FIGURE 1256**

MKASAALLCLLLTAAAFSPQGLAQPVGINTSTTCYRFINKKIPKQRLESYRRTTSSHCPREAVIFKTKLDKEIC  
ADPTQKWVQDFMKHLDKKTQTPKL

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**FIGURE 1257**

GGGGGAGCC**ATG**AGGCGCCAGCCTGCGAAGGTGGCGGCGCTGCTGCTCGGGCTGCTCTTGGAGTGCACAGAAGCC  
AAAAAGCATTGCTGGTATTTTCGAAGGACTCTATCCAACCTATTATATATGCCGCTCCTACGAGGACTGCTGTGGC  
TCCAGGTGCTGTGTGCGGGCCCTCTCCATACAGAGGCTGTGGTACTTCTGGTTTCCTTCTGATGATGGGCGTGCTT  
TTCTGCTGCGGAGCCGGCTTCTTTCATCCGGAGGCGCATGTACCCCCCGCCGCTGATCGAGGAGCCAGCCTTCAAT  
GTGTCCTACACCAGGCAGCCCCCAAATCCCGGCCAGGAGCCAGCAGCCGGGGCCGCCCTATTACACTGACCCA  
GGAGGACCGGGGATGAACCTGTGCGGAATTCCACGGCAATGGCTTTCCAGGTCCCACCCAACCTACCCCAGGGG  
AGTGTGGCCTGCCCCCCCCCTCCAGCCTACTGCAACACGCCTCCGCCCCCGTACGAACAGGTAGTGAAGGCCAAG  
**TAG**TGGGGTGCCACGTGCAAGAGGAGAGACAGGAGAGGGCCTTTCCCTGGCCTTTCTGTCTTCGTTGATGTTCA  
CTTCCAGGAACGGTCTCGTGGGCTGCTAAGGGCAGTTCCTCTGATATCCTCACAGCAAGCACAGCTCTCTTTCAG  
GCTTTCCATGGAGTACAATATATGAACTCACACTTTGTCTCCTCTGTTGCTTCTGTTTCTGACGCAGTCTGTGCT  
CTCACATGGTAGTGTGGTGACAGTCCCCGAGGGCTGACGTCCTTACGGTGGCGTGACCAGATCTACAGGAGAGAG  
ACTGAGAGGAAGAAGGCAGTGCTGGAGGTGCAGGTGGCATGTAGAGGGGCCAGGCCGAGCATCCCAGGCAAGCAT  
CCTTCTGCCCCGGGTATTAATAGGAAGCCCCATGCCGGGCGGCTCAGCCGATGAAGCAGCAGCCGACTGAGCTGAG  
CCCAGCAGGTCACTGCTCCAGCCTGTCTCTCGTCAGCCTTCTCTTCCAGAAGCTGTTGGAGAGACATTTCAGG  
AGAGAGCAAGCCCCCTTGTATGTTTCTGTCTCTGTTCATATCCTAAAGATAGACTTCTCCTGCACCGCCAGGGAA  
GGATAGCACGTGCAGCTCTCACCGCAGGATGGGGCCTAGAATCAGGCTTGCCTTGGAGGCCTGACAGTGATCTGA  
CATCCACTAAGCAAATTTATTTAAATTCATGGGAAATCACTTCCTGCCCAAACCTGAGACATTGCATTTTGTGAG  
CTCTTGGTCTGATTTGGAGAAAGGACTGTTACCCATTTTTTTTGGTGTGTTTATGGAAGTGCATGTAGAGCGTCCT  
GCCCTTTGAAATCAGACTGGGTGTGTGCTTCCCTGGACATCACTGCCTCTCCAGGGCATTCTCAGGCCCGGGGG  
TCTCCTTCCCTCAGGCAGCTCCAGTGGTGGGTCTGAAGGGTGCTTTCAAACGGGGCACATCTGGCCGGGAAGT  
CACATGGACTCTTCCAGGGAGAGAGACCAGCTGAGGCGTCTCTCTCTGAGGTTGTGTTGGGTCTAAGCGGGTGTG  
TGCTGGGCTCCAAGGAGGAGGAGCTTGCTGGGAAAAGACAGGAGAAGTACTGACTCAACTGCACTGACCATGTTG  
TCATAATTAGAATAAAGAAGAAGTGGTCGGAAATGCACATTCCCTGGATAGGAATCACAGCTCACCCAGGATCTC  
ACAGGTAGTCTCCTGAGTAGTTGACGGCTAGCGGGGAGCTAGTTCCGCCGCATAGTTATAGTGTTGATGTGTGAA  
CGCTGACCTGTCCTGTGTGCTAAGAGCTATGCAGCTTAGCTGAGGCGCCTAGATTACTAGATGTGCTGTATCACG  
GGGAATGAGGTGGGGGTGCTTATTTTTTAATGAACTAATCAGAGCCTCTTGAGAAATTGTTACTCATTGAACTGG  
AGCATCAAGACATCTCATGGAAGTGGATACGGAGTGATTTGGTGTCCATGCTTTTCACTCTGAGGACATTTAATC  
GGAGAACCTCCTGGGGAATTTTGTGGGAGACACTTGGGAACAAAACAGACACCCTGGGAATGCAGTTGCAAGCAC  
AGATGCTGCCACCAGTGTCTCTGACCACCCTGGTGTGACTGCTGACTGCCAGCGTGGTACCTCCCATGCTGCAGG  
CCTCCATCTAAATGAGACAACAAAGCACAAATGTTCACTGTTTACAACCAAGACAACCTGCGTGGGTCCAAACACTC  
CTCTTCCCTCCAGGTCAATTTGTTTTGCATTTTTAATGTCTTTATTTTTTGTAATGAAAAAGCACACTAAGCTGCC  
CTGGAATCGGGTGCAGCTGAATAGGCACCCAAAAGTCCGTGACTAAATTCCGTTTGTCTTTTTGATAGCAAATTA  
TGTTAAGAGACAGTGATGGCTAGGGCTCAACAATTTGTATTCCCATGTTTGTGTGAGACAGAGTTTGTTTTCCC  
TTGAACTTGTTTAGAATTGTGCTACTGTGAACGCTGATCCTGCATATGGAAGTCCCACTTTGGTGACATTTCCCTG  
GCCATTCTTGTTTCCATTGTGTGGATGGTGGGTGTGCCCACTTCCCTGGAGTGAGACAGCTCCTGGTGTGTAGAA  
TTCCCGGAGCGTCCGTGGTTCAGAGTAACTTGAAGCAGATCTGTGCATGCTTTTCTCTGCAGCAATTGGCTCG  
TTTCTCTTTTTTGTCTCTTTTGATAGGATCCTGTTCCCTATGTGTGCAAAATAAAATAAATTTGGGCAAAAAA  
AAAAAAAAAAAAAA

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**FIGURE 1258**

MRRQPAKVAALLLGLLLECTEAKKHCWYFEGLYPTYYICRSYEDCCGSRCCVRALSIQRLWYFWFLMMGVLFCC  
GAGFFIRRRMYPPPLIEEPAFNVSYTRQPPNPGPGAQQPGPPYYTDPGGPGMNPVGNSTAMAFQVPPNSPQGSVA  
CPPPPAYCNTPPPPYEQVVKAK



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**FIGURE 1259**

CCAAC TTATTTAAACAAAACAATTTTGTAGGTATTATTATACCCATTTACAGATGATGATAAAATGAGACCAAT  
AGAA GTTAAATAACTTGCCAAAGGCCACACAGCTGGTGAGTGATGGAGAACGAATTA AAAACTCAAGTGAGCATAA  
TTCTAAAAGCCATCTTCTCGTTAGTGTTTCTCACTATCCAGGTCTGCCTTTGCCTTATTTAACTGAAGTTAAGCC  
ATCCTTACCTGTGATCACCTAGCCTCTCAGTTTGGGGGGATCATTACAGCGGGTTTTTA ACTCCCAATGTTCTGG  
TCCAGTTTGCTTTACATGTTCTTATTTATACATTGTCAAGGATGACCTCAGGACAGTACAGCAAGGACACAGTGG  
CACTTCACATTTTGTTCCACGAAATGACTGGGGCATAATCTCAGATCATCTTCCTTTAGAAATGTGGAACATCA  
GCAGAAGAATATTAGTCTTTATACAAGTCAAATCCAAAATGACACATGTGAAA ACTAATAGAGCTGACTTTCAGC  
CATGATAGCTTTGGCACACCTCACATCCCTTTGTTCAACCTCTCTTCCCTCAACGGAGAGCTGCATTCTCTGGGAA  
TTTCTGTTGTGCACTTTTCCCACTTGCCCTGCTGTCAATTTAAAGGTGAACATTCTAGTTTTGCTAAGAAAACCTT  
TTCCTTCATTTGGAATGAACAGCAATTTTATTACTTTTGACCTTAAATGAGTTTGCTGCCTTCAAATCTTTTCA  
GCGCCTTCATCACGCTCTGCTTCGGGGCGATCTTCTTCCTGCCAGACTCCTCCAAGCTGCTCAGCGGGTCTCTGT  
TCCACTCCAGCCCCGCTTG CAGCCGGCCGCGGACCACAAGCCCGGGCCCGGGGCGCGCGCGGAGGACGCGGCCG  
AGGGGCGAGCCCGGCGCGGAGGAGGGGGCACCCGGGACCCGGAGGCCGCCCTGGAGGACA ACTTGGCCAGGA  
TCCGCGAAAACCACGAGCGGGCTCTCAGGGAAGCCAAGGAGACCCTGCAGAAGCTGCCCGAGGAGATCCAAAGAG  
ACATCCTACTGGAGAAGAAGAAGGTGGCCAGGACCAGCTGCGTGACAAGGCGCCGTT CAGAGGCCTGCCCCCGG  
TGGACTTCGTGCCCCAATCGGGGTGGAGAGCCGGGAGCCCCGCCGACGCCGCCATCCGCGAGAAAAGGGCAAAGA  
TCAAAGAGATGATGAAACATGCTTGGAATAATTATAAAGGTTATGCCTGGGGATTAAATGAACTCAAACCTATAT  
CAAAGGAGGCCATTCAAGCAGTTTGTTTGGTAACATCAAAGGAGCAACTATAGTAGATGCCCTGGATACACTTT  
TTATTATGGAATGAAACATGAATTTGAAGAAGCAAAATCATGGGTTGAAGAAAATTTAGATTTTAATGTGAATG  
CTGAAATTTCTGTCTTTGAAGTAAATATACGCTTTGTTGGTGGACTACTCTCAGCCTACTATCTGTCTGGAGAAG  
AGATTTTTCGAAAGAAAGCAGTGGA ACTTGGGGTAAAAATTGCTACCTGCATTT CATACTCCCTCTGGAATACCTT  
GGGCATTGCTGAATATGAAAAGTGGTATTGGAAGGAACTGGCCCTGGGCCTCTGGAGGCAGCAGTATTCTGGCAG  
AATTTGGAACCTGCA TTTGGAGTTTATGCACTTGAGCCACTTATCAGGAAACCCCATCTTTGCTGAAAAGGTAA  
TGAATATTGGAACAGTACTGAACAACTGGAAAAACCACAAGGCCTTTATCCTAACTATCTGAATCCCAGTAGTG  
GACAGTGGGGTCAACATCATGTATCAGTTGGAGGACTTGAGACAGCTTCTATGAGTATTTGCTGAAGGCCTGGT  
TAATGTCTGACAAGACAGATCTGGAAGCTAAGAAGATGTATTTTGATGCTGTT CAGGCTATCGAGACTCATTGGA  
TCCGCAAGTCTAGCAGCGGACTA ACTTATATCGCAGAGTGGA AAAAGGGCCTCCTGGAGCACAAGATGGGCCACC  
TGACCTGCTTCGCGGGGGGCATGTT CGCACTCGGGGCTGATGCAGCTCCCGAAGGCATGGCCCAACACTACCTTG  
AACTCGGGGCTGAAATTGCCCGTACTTGT CATGAATCATATAATCGAACATTTATGAACTGGGACCAGAAAGCTT  
TCAGATTTGATGGTGGTGTGTAAGCCATCGCTACAAGACAAAATGAAAAATACTACATCTTACGGCCAGAAAGTTA  
TGGAGACTTACATGTATATGTGGAGACTGACTCATGATCCAAAGTACAGGAAATGGGCCTGGGAAGCCGTAGAGG  
CCTTGGA AAAACCATG CAGAGTGAATGGAGGCTATT CAGGCCTAAGGGATGTTTACCTTCTTCATGAGAGTTATG  
ATGATGTGCAGCAGAGTTTCTT CCTGGCAGAGACATTGAAATATTTGTACCTAATATTTTCTGACGACGATCTTC  
TTCCACTGGAGCATTGGATCTTCAATAGCGAGGCACATCTTCTCCCTATCCTCCCTAAAGATAAAAAGGAAGTTG  
AAATCAGAGAGGAAATAAAAAAGACATTTATATTTTATTCTGCTCCATTCCCTTCACTGTATACCTTAATAATTCC  
TTTTCTGGTAATCAGGCACATGATGAACTTTGATTAGTAGGTCTGTGATTAAAGTTCTTAAATTGTTTTGCAGTCT  
TTTATGTTTATTATCATAGGTATAGGTGGACCTAAATTCCCTTATCATATCTTTATTAATTCAGCCAGTGTATCCA  
CCAGTTTTTTGTTTATGTTTTTAAGTAACCTATTATCTCTGGATTT CATGAAGGTGTAATATCGTTTTTTGTTAAA  
CTGAATAGAATTGTATAGCGATGACCTCTTAATTATAATTTGATTTGACTGCAAAACTTTTTCTCCTCTAAGAG  
GAGATGATGTCTGCTTTAAGCTGTAATGTTTTGCCATGTTGCAAAAAGCCATAATAATAAGTATAAAAAAGCTTT  
TTCCTTTACAATTT CATGTTAATCTGTTTTGTCTGTCCACCAGAGACAGATCTTCTGTGACAGCCTCCTTATGCA  
GGTCTATCATTATTTGATAGAATGTCTTCTAAAATACTTCACTCACATTGTAATTCAAATTAGAAAGTCATTCCA  
AAAGGTCATGT CATGTTGACCTCATTT CATCGGAACTGCAGTATATTTTTGTTGGTTAATTATATTAGTGTTTTT  
TATTTTGAAAAA AAAAAAAAAAAAAA

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**FIGURE 1260**

MNSNFITFDLKMSLLPSNLFSAFITLFCGAIFFLPDSSKLLSGVLFHSSPALQPAADHKPGPGARAEDAAEGRAR  
RREGAPGDPEAALEDNLARIRENHERALREAKETLQKLPEEIQRDILLEKKKVAQDQLRDKAPFRGLPPVDFVP  
PIGVESREPADAAREKRAKIKEMMKHAWNNYKGYAWGLNELKPI SKGGHSSSLFGNIKGATIVDALDTL FIMEM  
KHEFEEAKSWVEENLDFNVNAEISVFEVNIRFVGGLLSAYYLSGEEIFRKKAVELGVKLLPAFHTPSGIPWALLN  
MKSGIGRNWPWASGGSSILAEFGTLHLEFMHLSHLSGNPIFAEKVMNIRTVLNKLEKPQGLYPNYLNPSSGQWGQ  
HHVSVGGLGDSFYEYLLKAWLMSDKTDLEAKKMYFDAVQAIETHLIRKSSSGLTYIAEWKRGLLEHKMGHLTCFA  
GGMFALGADAAPEGMAQHYLELGAEIARTCHESYNRTFMKLGPEAFRFDGGVEAIATRQNEKYIILRPEVMETYM  
YMWRLTHDPKYRKWAVEAVEALENHCRVNGGYSGLRDVYLLHESYDDVQQSFFLAETLKYLYLIFSDDDLLPLEH  
WIFNSEAHLPLPKDKKEVEIREE

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**FIGURE 1261A**

GGGCGCAGAGGAGGAAAGGGAGCAGGCGCAGGGGGACTGGAAAGGCAGCATGCGCTCGCCAGGAGCAACCTCGGC  
GCCCAGGGTCTGAGGCTGCAGCCCCAGTTCGCCATTGTGAGCCGCCGCCGGGGGAGTCCGCTAGCGCAGCCGTGC  
CCCCGAGTCCCCGTCCGCGCAGCGATGGGGGCACCTGCCCCACGGGGATACACGGCGCCCCGCCCTCCTGCCTCTG  
CTCTGGCTCTTTGTGCTGTTCAAGAATGCTACAGCTTTCCATGTAACGTGTCCAAGATGATAATAACATCGTTGTC  
TCATTAGAAGCTTCAGACGTCATCAGTCCAGCATCTGTGTATGTTGTGAAGATAACTGGTGAATCCAAAAATTAT  
TTCTTCGAATTTGAGGAATTCAACAGCACTTTGCCTCCTCCTGTTATTTTCAAGGCCAGTTATCATGGCCTTTAT  
TATATAATCACTCTGGTAGTGGAATGGAAATGTGGTGACCAAGCCATCCAGATCAATCACTGTGTTAACAAAA  
CCTCTACCTGTAACCACTGTTTCCATATATGACTATAAACCTTCTCCTGAAACAGGAGTCTGTGTTGAAATACAT  
TATCCAGAAAAATATAACGTTTTCAAGAGTGAACATTAGCTACTGGGAAGGTAAAGACTTCCGGACAATGCTA  
TATAAGATTTCTTTAAGGGAAAAACAGTATTTAATCACTGGCTGCCAGGAATGTGTTATAGTAATATCACCTTT  
CAGCTGGTATCTGAGGCAACTTTTAATAAAAGTACCCTTGTTGAGTACAGTGGTGTGAGTCACGAACCCAAACAG  
CACAGAACTGCCCCCTTATCCACCTCAAAATATTTCCGTTTCGTATCGTAAACTTGAACAAAAACAACCTGGGAAGAA  
CAGAGTGGCAATTTCCCAGAAGAATCCTTCATGAGATCACAAGATACAATAGGAAAAAGAAAACTCTTCCATTTT  
ACAGAAGAAACCCCTGAAATTCCTCGGGCAACATTTCTTCCGGTTGGCCTGATTTTAATAGCAGTGACTATGAA  
ACTACGTCTCAGCCATATTGGTGGGACAGTGCATCTGCAGCTCCTGAAAGTGAAGATGAATTTGTCAGCGTACTT  
CCCATGGAATACGAAAATAACAGTACACTCAGTGAGACAGAGAAGTCAACATCAGGCTCTTTCTCCTTTTTCCCT  
GTGCAAATGATATTGACCTGGTTACCAACCAAAACCACCCACTGCTTTTGATGGGTTCCATATCCATATTGAACGA  
GAAGAGAAGCTTTACTGAATATTTGATGGTGGATGAAGAAGCACATGAATTTGTTGCAGAACTGAAGGAACCTGGG  
AAATATAAGTTATCTGTGACAACCTTTAGTTCCTCAGGATCTTGTGAAACTCGAAAAAGTCAGTCAGCAAAATCA  
CTCAGCTTTTATATCAGTCCTTCAGGAGAGTGGATTGAAGAAGTACCAGAGAAGCCGCAGCACGTGAGTGTCCAC  
GTTTTAAGCTCAACCACTGCCTTGATGTCTGGACATCTTCCCAAGAGAAGTACAACAGCACCATTGTGTCTGTG  
GTGTCGCTGACCTGCCAGAAACAAAAGGAGAGCCAGAGGCTTGAAGAAGCAGTACTGCACTCAGGTGAACCTCAAGC  
AAACCTATTATTGAAAATCTGGTTCCCTGGTGCCAGTACCAGGTTGTAATATACCTAAGGAAAGGCCCTTTGATT  
GGACCACCTTCAGATCCTGTGACATTTGCTATTGTTCCACAGGAATAAAGGATTTAATGCTCTATCCTTTGGGT  
CCTACGGCCGTGGTTCTGAGCTGGACCAGACCTTATTTAGGCGTGTTTCAGAAAATACGTGGTTGAAATGTTTTAT  
TTCAACCCCTGCTACAATGACATCAGAGTGGACCACCTACTATGAAATAGCAGCAACTGTTTCCCTTAAGTGCATCC  
GTGAGAATAGCTAATCTGCTGCCAGCATGGTACTACAACCTCCGGGTTACCATGGTGACGTGGGGAGATCCAGAA  
TTGAGCTGCTGTGACAGCTCTACCATCAGCTTCATAACAGCCCCAGTGGCTCCGGAAATCACTTCTGTGGAATAT  
TTCAACAGTCTGTTATATATCAGTTGGACATATGGGGATGATAACAACGGACTTGTCCCATTCTAGAATGCTTCAC  
TGGATGGTGGTTGCAGAAGGAAAAAAGAAAATTAAGAGAGTGTAACACGCAATGTCATGACTGCAATTTCTCAGC  
TTGCCTCCAGGCGACATCTATAACCTCTCAGTAACTGCTTGTACTGAAAGAGGAAGTAATACCTCCATGCTCCGC  
CTTGTCAGCTAGAACCAGCTCCACCCAAATCACTCTTCGCAGTGAACAAAACCCAGACTTCAGTGACTTTGCTG  
TGGGTGGAAGAGGGAGTAGCTGATTTCTTTGAAGTTTTCTGTCAACAAGTTGGCTCCAGTCAGAAAACCAACTT  
CAGGAACCAGTTGCTGTTTCTTCCCATGTCGTGACCATCTCCAGCCTTCTTCTGCCACTGCCTACAATTGTAGT  
GTCACCAGCTTTAGCCATGACAGCCCCAGTGTCCCTACGTTTCATAGCCGCTCTCAACAATGGTTACAGAGATGAAT  
CCCAATGTGGTAGTGATCTCCGTGCTGGCCATCCTTAGCACACTTTTTAATTGGACTGTTGCTTGTTACCCCTCATT  
ATTCTTAGGAAAAAGCATCTGCAGATGGCTAGGGAGTGTGGAGCTGGTACATTTGTCAATTTTGCATCCTTAGAG  
AGGGATGGAAAGCTTCCATACAACCTGGCGTAGGAGTATATTTGCTTTCTTAACCCTGCTACCCTCATGTCTTTGG  
ACTGATTATCTTTTGGCATTTTATATTAATCCTTGGAGTAAAAATGGTTTAAAGAAGAGGAAACTGACAAAACCCG  
GTTCAACTGGATGACTTTGATGCCTATATTAAGGATATGGCCAAAGACTCTGACTATAAAATTTTCTCTTCAGTTT  
GAGGAGTTGAAATTGATTGGACTGGATATCCACACTTTGCTGCAGATCTTCCACTGAATCGATGTAAAAACCGT  
TACACAAAACATCCTACCATATGACTTCAGCCGTGTGAGATTAGTCTCCATGAATGAAGAGGAAGGTGCAGACTAC  
ATCAATGCCAACTATATTCTGGATACAACCTCACCCACAGGAGTATATTGCCACCCAGGGGCCACTGCCTGAAACC  
AGAAATGACTTCTGGAAGATGGTCCTGCAACAAAAGTCTCAGATTATTGTGTCATGCTCACTCAGTGTAATGAGAAA  
AGGAGGGTGAAATGTGACCATTACTGGCCATTACGGAAGAACCTATAGCCTATGGAGACATCACTGTGGAGATG  
ATTTTCAGAGGAAGAGCAGGACGACTGGGCCTGTAGACACTTCCGGATCAACTATGCTGACGAGATGCAGGATGTG  
ATGCATTTTAACTACACTGCATGGCCTGATCATGGTGTGCCACAGCAAATGCTGCAGAAAGTATCCTGCAGTTT  
GTACACATGGTCCGACAGCAAGCTACCAAGAGCAAAGGTCCCATGATCATTCACTGCAGTGTGGCGTGGGACGG

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**FIGURE 1261B**

ACAGGAACATTCATTGCCCTGGACAGGCTCTTGCAGCACATTCGGGATCATGAGTTTGTTGACATCTTAGGGCTG  
GTGTCAGAAATGAGGTCATACCGGATGTCTATGGTACAGACAGAGGAGCAGTACATTTTTATCCATCAGTGTGTG  
CAACTGATGTGGATGAAGAAGAAGCAGCAGTTCTGCATCAGTGATGTGCATATACGAGAATGTTAGCAAGTCC**TAG**

TTCAGAAATCCGGAGCAGAGAGGACATGATGTGCGCCCATCCTCCCTTGCTTCCAGATTGTTTTAGTGGGCCCTGA  
TGGTCATTTTTCTAAACAGAGGCCCTGCTTTGTAATATGTGGCCAAGGAGATAATTTATCTCACAGAAGCACCGG  
GAAGACTTAGCCTTAAAGAGCCTACAGTGTCTTTTGGACTCTTTCACCTTCGGGACATTTAATAATGGACCAAAT  
TCAACAGAACACCAGGAAGGTCAAGACGCTCTCCAAAGGGCAGGAAGTACAGCACTTCCGAAGAGTTTAGTTGGC  
CCTTTGCTGGTTGGGCTGAGTTTTTTATTTTTAAGTGTGTTTTTCAGTGCAATAATTTTTGTGTGTGTGTGAT  
TCTTATCAGAAAGTTGAATTGTTTTCTGCCTACACCGTTCATCAGCCCCATAACCCAGGAAGGAACAGGCATTGT  
TAGCATCAGATTATACCTCATTATTTAAAGAGGCATGGCCACACATGAAGAAATGGTCATTCTACTTCAAAGAA  
ATTGAGCCAGCACTATCTGTACTCCAACATTACCGGATCTGGATTGGGGAGGTTGGTCAGGGAAGAGAGGGGTTT  
TACCCACAGATCAACTGTGTAATCTTTTACTATTCAAGCTATAATTCAGCTTCAAAGTAGAGTAGAAAAAAATT  
GTCTTAACTGTTCTAGTTCTTGATGGTTTTCTTCCCTTATTAACAGTTGGTGTGTTTTCTTCCCTTGGCCCTTTTGGACT  
AATGTTACTGTCCAAGTTCTTTCTCAAGAAACCACATCTGGTTCAGAAGAGTGTCAAGTTGGACTCTTTGAACTC  
TGTTGCTGCTGAGCAATCGTGGTGCCTAGACTTTGCATTCCTTGTTCTGTTGACCTGCATACATGTGAGAGCTA  
TTTCTTTAAGAACTATATAGGCTGTGAAAACGCACCTTTCTTTCCCCCAAAGAGCTGGGAATTTATGAAGTTATGG  
CAATGAACTGCAGCATGCTGGGACAATTATTTGACTACTTTTTTTTTGTAATATTGTCAAATGTCTCTATGGATT  
TGACAGAGATTTCTTTTTGTTTTGTTATTCTTTTGGTTGTCAGTTTCATTTTAACGAGTGTAACCTAGTAACATTT  
TATTCTTTGGATTTTGTATAATTACAGTACATGATTGTGTATTGTGACATGAATGCTGTCAAAATGACATTGATG  
GCATTGTGAAGCCTGTTACTTTGTGTCACTTCCTGATAAATAAGAGGTGATGACATGGATATACAACAGAAAACA  
CTTTGAGTTGAAAGTAAACACAAGCTGGCTGCTTCCCTGTGGCAACTGTGGCT

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**FIGURE 1262**

MGHLPTGIHGARRLLPLLWLFVLFKNATAFHVTVQDDNNIVVSLEASDVISPASVYVVKITGESKNYFFEFEEFN  
STLPPPVIFKASYHGLYYIITLVVVNGNVVTKPSRSITVLTkPLPVTsvsiydykpspetgvlfeiHYPEKYNVF  
TRVNISYWEGKDFRTMLYKDFFKGKTvFNHWLPGMCYSNITFQLVSEATFNKSTLVEYSGVSHEPKQHRTAPYPP  
QNISVRIVNLNKNWEEQSGNFPEESFMRSQDTIGKEKLFHFTEETPEIPSGNISSGWPdFNSSDYETTSQPYWW  
DSASAAPeSEDEFVSvLPMeyENNstLSETEKSTSGSFSFFPVQMILTWLPPKPPTAFDGFHihIEREENfTEYL  
MVDEEAHEFVAELKEPGKYKLSVTTfSSSGSCETRKSQSAKSLsfyISPSGEWIEELTEKpqHVSvHVLSSTTAL  
MSWtSSQENYNstIVSVVSLTCQKQKESQRLEKQYCTQVNSSKPIIENLVPGAQYQVVIYLRKGPLIGPPSDPVT  
FAIVPTGIKDLMLYPLGPTAVVLSWTRPYLGvFRKYVvEMfyFNpATMTSEWTTYEIAATVSLTASVRIANLLP  
AWYYNFRVtMVTWGDPELSCCDSSTISfITAPVAPEITSVEYFNsLLYISWtyGDDTTDLshSRMLHWMVVAEGK  
KKIKKSVTRNVMTAILSLPPGDIYNLSVTACTERGSNTSMLRLVKLEPAPPKSLFAVNKTQTSVTLLWVEEGVAD  
FFEVFCCQVGSQKTKLQEPVAVSSHVVtISSLLPATAYNCSVTSFSHDSPSVPTFIaVSTMVTEMNPNVVVISV  
LAILSTLLIGLLLVTLIILRKKHLQMARECGAGTFVNfASLERDGKLPYNWRRSIFAFLTLPLSCLWTDYLLAFY  
INPWSKNGLKKRKLtnPVQLDDFDAYIKDMAKDSYKfSLQFEELKLIGLDIPHFAADLPLNRCKNRYTNILPYD  
FSRVRLVSMNEEEGADYINANYIPGYNSPQeYIATQGPLPETRNDfWKmVLQQKSQIIvMLTQCNEKRRVKCDHY  
WPFTEEPiAYGDITVEMISEEEQDDWACRHFRINyADEMQDVMHFNYTAWPDHGvPTANAAESILQFVHMVRQQA  
TKSKGPMIiHCSAGVGRtGTfIALDRLLQHIRDHEFVDILGLVSEMRSYRMSMVQTEEQYIFIHQCvQLMWMKKK  
QQFCISDVIYENVSKS

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**FIGURE 1263**

GGACAACCGGCTGGGGTCCTTGCGCGCCGCGGCTCAGGGAGGAGCACCGACTGCGCCGCACCCTGAGAGATCGTT  
GGTGCCATGTGGAAGGTGATTGTTTCGCTGGTCCTGTTGATGCCTGGCCCCCTGTGATGGGCTGTTTCGCTCCCTA  
TACAGAAAGTGTTCATGCCACCTAAGGGAGACTCAGGACAGCCATTATTTCTCACCCCTTACATTGAAGCTGGG  
AAGATCCAAAAAGGAAGAGAATTGAGTTTTGGTCGGCCCTTTCCCAGGACTGAACATGAAGAGTTATGCCGGCTTC  
CTCACCGTGAATAAGACTTACAACAGCAACCTCTTCTTCTGGTTCTTCCCAGCTCAGATACAGCCAGAAGATGCC  
CCAGTAGTTCTCTGGCTACAGGGTGGGCCGGGAGGTTTCATCCATGTTTGGACTCTTTGTGGAACATGGGCCTTAT  
GTTGTCACAAGTAACATGACCTTGCGTGACAGAGACTTCCCCTGGACCACAACGCTCTCCATGCTTTACATTGAC  
AATCCAGTGGGCACAGGCTTCAGTTTTACTGATGATACCCACGGATATGCAGTCAATGAGGACGATGTAGCACGG  
GATTTATACAGTGCACCTAATTCAGTTTTTCCAGATATTTCTGAATATAAAAAATAATGACTTTTATGTCACTGGG  
GAGTCTTATGCAGGGAATATGTGCCAGCCATTGCACACCTCATCCATTCCCTCAACCCTGTGAGAGAGGTGAAG  
ATCAACCTGAACGGAATTGCTATTGGAGATGGATATTCTGATCCCGAATCAATTATAGGGGGCTATGCAGAATTC  
CTGTACCAAATTTGGCTTGTTGGATGAGAAGCAAAAAAAGTACTTCCAGAAGCAGTGCCATGAATGCATAGAACAC  
ATCAGGAAGCAGAACTGGTTTGAGGCCTTTGAAATACTGGATAAACTACTAGATGGCGACTTAACAAGTGATCCT  
TCTTACTTCCAGAATGTTACAGGATGTAGTAATTACTATAACTTTTTGCGGTGCACGGAACCTGAGGATCAGCTT  
TACTATGTGAAATTTTTGTCACTCCAGAGGTGAGACAAGCCATCCACGTGGGGAATCAGACTTTTAATGATGGA  
ACTATAGTTGAAAAGTACTTGCGAGAAGATACAGTACAGTCAGTTAAGCCATGGTTAACTGAAATCATGAATAAT  
TATAAGGTCTGATCTACAATGGCCAACTGGACATCATCGTGGCAGCTGCCCTGACAGAGCGCTCCTTGATGGGC  
ATGGACTGGAAAGGATCCCAGGAATACAAGAAGGCAGAAAAAAAAGTTTGGAAGATCTTTAAATCTGACAGTGAA  
GTGGCTGGTTACATCCGGCAAGTGGGTGACTTCCATCAGGTAATTATTCGAGGTGGAGGACATATTTTACCCTAT  
GACCAGCCTCTGAGAGCTTTTGACATGATTAATCGATTTCATTTATGGAAAAGGATGGGATCCTTATGTTGGATTAA

ACTACCTTCCCAAAAGAGAACATCAGAGGTTTTTCATTGCTGAAAAGAAAATCGTAAAAACAGAAAATGTCATAGG  
AATAAAAAAATTATCTTTTCATATCTGCAAGATTTTTTTTCATCAATAAAAAATTATCCTTGAAA

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**FIGURE 1264**

MVGAMWKVIVSLVLLMPGPGCDGLFHSLYRSVSMPPKGD SGQPLFLTPYIEAGKIQKGRELSLVGPFPGGLNMKSYA  
GFLT VNKT YNSNLFFWFFPAQIQPEDAPVVLWLQGGPGGSSMFGLFVEHGPYVVT SNMTLRDRDFPWTTTLSMLY  
IDNPVGTGFSFTDDTHGYAVNEDDVARDLYSALI QFFQIFPEYKNND FYVTGESYAGKYVPAIAHLIHS LNPVRE  
VKINLNGIAIGDGYSDPESIIGGYAEFLYQIGLLDEKQKKYFQKQCHECIEHIRKQNWLEAFEILDKLLDGD LTS  
DPSYFQNV TGCSNYYNFLRCTEPEDQLYYVKFLSLPEVRQAIHVGNQTFNDGTIVEKYLREDTVQSVKPWLTEIM  
NNYKVL IYNGQLDIIVAAALTEHSLMGMDWKGSQEYKKA EKKVWKILKSDSEVAGYIRQAGDSHQVIIRGGGHIL  
PYDQPLRAFD MINRFIYGKWD PYVG

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**FIGURE 1265A**

CTCCGGCGCCCCGCTCTGCCCGCCGCTGGGTCCGACCGCGCTCGCCTTCCTTGACGCCGCGCCTCGGCCCC**ATGGA**  
CGCCCTGTGCGGTTCCGGGGAGCTCGGCTCCAAGTTCTGGGACTCCAACCTGTCTGTGCACACAGAAAACCCGGA  
CCTCACTCCCTGCTTCCAGAACTCCCTGCTGGCCTGGGTGCCCTGCATCTACCTGTGGGTTCGCCCTGCCCTGCTA  
CTTGCTCTACCTGCGGCACCATTTGTCGTGGCTACATCATCCTCTCCACCTGTCCAAGCTCAAGATGGTCCCTGGG  
TGTCTGTCTGTGGTGCCTCTCCTGGGCGGACCTTTTTTACTCCTTCCATGGCCTGGTCCATGGCCGGGGCCCCTCG  
CCCTGTTTTCTTTGTACCCCCCTTGGTGGTGGGGGTACCATGCTGCTGGCCACCCTGCTGATACAGTATGAGCG  
GCTGCAGGGCGTACAGTCTTCGGGGGTCTCATTATCTTCTGTTTCTGTGTGTGGTCTGCGCCATCGTCCCAT  
CCGCTCCAAGATCCTTTTAGCCAAGGCAGAGGGTGAGATCTCAGACCCCTTCGGCTTCACCACCTTCTACATCCA  
CTTTGCCCTGGTACTCTCTGCCCTCATCTTGGCCTGCTTCAGGGAGAAACCTCCATTTTTCTCCGCAAAGAATGT  
CGACCCTAACCCCTACCCTGAGACCAGCGCTGGCTTTCTCTCCCGCCTGTTTTTCTGGTGGTTTCAAAAGATGGC  
CATCTATGGCTACCGGCATCCCTGGAGGAGAAGGACCTCTGGTCCCTAAAGGAAGAGGACAGATCCCAGATGGT  
GGTGCAGCAGCTGCTGGAGGCATGGAGGAAGCAGGAAAAGCAGACGGCAGACACAAGGCTTCAGCAGCACCTGG  
GAAAAATGCCCTCCGGCGAGGACGAGGTGCTGCTGGGTGCCCGGCCAGGCCCGGAAGCCCTCCTTCTGAAGGC  
CCTGCTGGCCACCTTCGGCTCCAGCTTCCTCATCAGTGCCTGCTTCAAGCTTATCCAGGACCTGCTCTCCTTCAT  
CAATCCACAGCTGCTCAGCATCCTGATCAGGTTTATCTCCAACCCCATGGCCCCCTCCTGGTGGGGCTTCCTGGT  
GGCTGGGCTGATGTTCTGTGCTCCATGATGCAGTCGCTGATCTTACAACACTATTACCACTACATCTTTGTGAC  
TGGGGTGAAAGTTTCGTACTGGGATCATGGGTGTCTACAGGAAGGCTCTGGTTATACCAACTCAGTCAAACG  
TGCGTCCACTGTGGGGGAAATTGTCAACCTCATGTGAGTGGATGCCAGCGCTTCATGGACCTTGCCCCCTTCCT  
CAATCTGCTGTGGTGCAGACCCCTGCAGATCATCTGGCGATCTACTTCTCTGGCAGAACCTAGGTCCCTCTGT  
CCTGGCTGGAGTCGCTTTCATGGTCTTGCTGATTCCACTCAACGGAGCTGTGGCCGTGAAGATGCGCGCCTTCCA  
GGTAAAGCAAATGAAATTGAAGGACTCGCGCATCAAGCTGATGAGTGAGATCCTGAACGGCATCAAGGTGCTGAA  
GCTGTACGCTGGGAGCCCAGCTTCCTGAAGCAGGTGGAGGGCATCAGGCAGGGTGAGCTCCAGCTGCTGCGCAC  
GGCGGCCTACCTCCACACCACAACCACCTTACCTGGATGTGCAGCCCCTTCCTGGTGACCCTGATCACCTCTG  
GGTGTACGTGTACGTGGACCCAAACAATGTGCTGGACGCCGAGAAGGCCTTTGTGTCTGTGTCTTGTTTAATAT  
CTTAAGACTTCCCCTCAACATGCTGCCCCAGTTAATCAGCAACCTGACTCAGGCCAGTGTGTCTCTGAAACGGAT  
CCAGCAATTCTTGAGCCAAGAGGAACCTTGACCCCAAGAGTGTGGAAAGAAAGACCATCTCCCCAGGCTATGCCAT  
CACCATACACAGTGGCACCTTACCTGGGCCCAGGACCTGCCCCCACTCTGCACAGCCTAGACATCCAGGTCCC  
GAAAGGGGCACTGGTGGCCGTGGTGGGGCCTGTGGGTGTGGGAAGTCTCCTCCTGGTGTCTGCCCTGCTGGGAGA  
GATGGAGAAGCTAGAAGGCAAAGTGACATGAAGGGCTCCGTGGCCTATGTGCCCCAGCAGGCATGGATCCAGAA  
CTGCACTCTTCAGGAAAACGTGCTTTTCGGCAAAGCCCTGAACCCCAAGCGCTACCAGCAGACTCTGGAGGCCTG  
TGCTTGTAGCTGACCTGGAGATGCTGCCTGGTGGGGATCAGACAGAGATTGGAGAGAAGGGCATTAACTGTG  
TGGGGGCCAGCGGCAGCGGGTCAGTCTGGCTCGAGCTGTTTACAGTGATGCCGATATTTTCTTGTGATGACCC  
ACTGTCCGCGGTGGACTCTCATGTGGCCAAGCACATCTTTGACCAGTCTATCGGGCCAGAAGGCGTGTGGCAGG  
CAAGACGCGAGTGTGGTGACGCACGGCATTAGCTTCCTGCCCCAGACAGACTTCATCATTGTGCTAGCTGATGG  
ACAGGTGTCTGAGATGGGCCGTACCCAGCCCTGCTGCAGCGCAACGGCTCCTTTTGCCAACTTTCTCTGCAACTA  
TGCCCCCGATGAGGACCAAGGGCACCTGGAGGACAGCTGGACCGCGTTGGAAGGTGCAGAGGATAAGGAGGCACT  
GCTGATTGAAGACACACTCAGCAACCACACGGATCTGACAGACAATGATCCAGTCACCTATGTGGTCCAGAAGCA  
GTTTATGAGACAGCTGAGTGCCCTGTCTCAGATGGGGAGGGACAGGGTCGGCCTGTACCCCGGAGGCACCTGGG  
TCCATCAGAGAAGGTGCAGGTGACAGAGGCGAAGGCAGATGGGGCACTGACCCAGGAGGAGAAAGCAGCCATTGG  
CACTGTGGAGCTCAGTGTGTTCTGGGATTATGCCAAGGCCGTGGGGCTCTGTACCACGCTGGCCATCTGTCTCCT  
GTATGTGGGTCAAAGTGCGGCTGCCATTGGAGCCAATGTGTGGCTCAGTGCCTGGACAAATGATGCCATGGCAGA  
CAGTAGACAGAAACAACACTTCCCTGAGGCTGGGCGTCTATGCTGCTTTAGGAATTCTGCAAGGGTTCTTGGTGAT  
GCTGGCAGCCATGGCCATGGCAGCGGGTGGCATCCAGGCTGCCCGTGTGTTGCACCAGGCACTGCTGCACAACAA  
GATACGCTCGCCACAGTCCTTCTTTGACACCACACCATCAGGCCGCATCCTGAACTGCTTCTCCAAGGACATCTA  
TGTCTTGATGAGGTTCTGGCCCCTGTCTATCCTCATGCTGCTCAATTCTTCTTCAACGCCATCTCCACTCTTGT  
GGTCATCATGGCCAGCACGCCGCTCTTCACTGTGGTCATCCTGCCCTGGCTGTGCTCTACACCTTAGTGCAGCG  
CTTCTATGCAGCCACATCACGGCAACTGAAGCGCTGGAATCAGTCAGCCGCTCACCTATCTACTCCACTTTTC  
GGAGACAGTGACTGGTGCCAGTGTCTATCCGGGCCTACAACCGCAGCCGGGATTTTGAGATCATCAGTGATACTAA



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**FIGURE 1265B**

GGTGGATGCCAACCAGAGAAGCTGCTACCCCTACATCATCTCCAACCGGTGGCTGAGCATCGGAGTGGAGTTCGT  
GGGGAACCTGCGTGGTGCTCTTTGCTGCACTATTTGCCGTCATCGGGAGGAGCAGCCTGAACCCGGGGCTGGTGGG  
CCTTTCTGTGTCTACTCCTTGCAAGGTGACATTTGCTCTGAACTGGATGATACGAATGATGTCAGATTTGGAATC  
TAACATCGTGGCTGTGGAGAGGGTCAAGGAGTACTCCAAGACAGAGACAGAGGCGCCCTGGGTGGTGGAAAGGCAG  
CCGCCCTCCCGAAGGTTGGCCCCACGTGGGGAGGTGGAGTTCGGGAATTATTCTGTGCGCTACCGGCCGGGCCT  
AGACCTGGTGCTGAGAGACCTGAGTCTGCATGTGCACGGTGGCGAGAAGGTGGGGATCGTGGGCCGCACTGGGGC  
TGGCAAGTCTTCCATGACCCCTTTGCCTGTTCCGCATCCTGGAGGCGGCAAAGGTGAAATCCGCATTGATGGCCT  
CAATGTGGCAGACATCGGCCTCATGACCTGCGCTCTCAGCTGACCATCATCCCGCAGGACCCCATCTGTTCTC  
GGGGACCTGCGCATGAACCTGGACCCCTTCGGCAGCTACTCAGAGGAGGACATTTGGTGGGCTTTGGAGCTGTC  
CCACCTGCACACGTTTGTGAGCTCCAGCCGGCAGGCCTGGACTTCCAGTGCTCAGAGGGCGGGGAGAATCTCAG  
CGTGGGCCAGAGGCAGCTCGTGTGCCTGGCCCGAGCCCTGCTCCGCAAGAGCCGCATCCTGGTTTTAGACGAGGC  
CACAGCTGCCATCGACCTGGAGACTGACAACCTCATCCAGGCTACCATCCGCACCCAGTTTGATACCTGCACTGT  
CCTGACCATCGCACACCGGCTTAACACTATCATGGACTACACCAGGGTCCTGGTCCTGGACAAAGGAGTAGTAGC  
TGAATTTGATTCTCCAGCCAACCTCATTGCAGCTAGAGGCATCTTCTACGGGATGGCCAGAGATGCTGGACTTGC  
CTAAAATATATTCTGAGATTTCTCTGTCCTTTCTGGTTTTTCATCAGGAAGGAAATGACACCAAATATGTCC  
GCAGAAATGGACTTGATAGCAAACACTGGGGGCACCTTAAGATTTTGCACCTGTAAAGTGCCTTACAGGGTAACTG  
TGCTGAATGCTTTAGATGAGGAAATGATCCCCAAGTGGTGAATGACACGCCTAAGGTCACAGCTAGTTTGAGCCA  
GTTAGACTAGTCCCCCGGTCTCCCGATTCCCAACTGAGTGTTATTTGCACACTGCACTGTTTTCAAATAACGATT  
TTATGAAATGACCTCTGTCCTCCCTCTGATTTTTTCATATTTTCTAAAGTTTCGTTTCTGTTTTTAATAAAAAAG  
CTTTTTCTCTGGAACAGAAGACAGCTGCTGGGTGAGGCCACCCCTAGGAACTCAGTCCTGTACTCTGGGGTGC  
TGCCTGAATCCATTAAAAATGGGAGTACTGATGAAATAAAACTACATGGTCAACAGTAAAAAAAAAAAAAAAAAAAA  
A

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**FIGURE 1266**

MDALCGSGELGSKFWDSNLSVHTENPDLTPCFQNSLLAWVPCIYLLWVALPCYLLYLRRHRCRGYIILSHLSKLMV  
LGVLLWCVSWADLFYSFHGLVHGRAPAPVFFVTPLVVGVTMLLATLLIQYERLQGVQSSGVLIIFWFLCVVCAIV  
PFRSKILLAKAEGEISDPFRFTTFYIHFALVLSALILACFREKPPFFSAKNVDPNPYPETSAGFLSRLFFWWFTK  
MAIYGYRHPLEEKDLWSLKEEDRSQMVVQQLLEAWRKQEKQTARHKASAAPGKNASGEDEVLLGARPRPRKPSFL  
KALLATFGSSFLISACFKLIQDLLSFINPQLLSILIRFISNPMAPSWWGFLVAGLMFLCSMMQSLILQHYYHYIF  
VTGVKFRTGIMGVIYRKALVITNSVKRASTVGEIVNLMSVDAQRFMDLAPFLNLLWSAPLQIILAIYFLWQNLGP  
SVLAGVAFMVLLIPLNGAVAVKMRAFQVKQMKLKDSRIKLMSEILNGIKVLKLYAWEPSFLKQVEGIRQGEIQLL  
RTAAYLHTTTTTFTWMCSPFLVTLITLWVYVYVDPNNVLD AEKAFVSVSLFNILRLPLNMLPQLISNLTQASVSLK  
RIQQFLSQEELDPQSVERKTIISPGYAITIHSGTFTWAQDLPTLHSLDIQVPKGALVAVVGPVCGCKSSLVSALL  
GEMEKLEGKVHMKGSVAYVPQQAWIQNCTLQENVLF GKALNP KRYQQTLEACALLADLEMLPGGDQTEIGEKGIN  
LSGGQRQRVSLARAVYSADIFLLDDPLSAVD SHVAKHIFDHVIGPEGVLAGKTRVLVTHGISFLPQTDFIIVLA  
DGQVSEMGYPALLQRNGSFANFLCNYAPDEDQGHLEDSWTALEGAEDKEALLIEDTLNHTDLTDNDPVTYVVO  
KQFMRQLSALS SDGEGQGRPVPRRHLGPSEKVQVTEAKADGALTQEEKAAIGTVELSVFWDYAKAVGLCTTLAIC  
LLYVGQSA AAGANVWLSAWTNDAMADSRQNNTSLRLGVYAALGILQGFLVMLAAMAMAAGGIQAARVLHQALLH  
NKIRSPQSFFDTTPSGRILNCF SKDIYVVDEV LAPVILMLLNSFFNAISTLVVIMASTPLFTTVVILPLAVLYTLV  
QRFYAATSRQLKRLESVSRSPIYSHFSETVTGASVIRAYNRSRDFEIIISDTKVDANQRSCYPYIISNRWLSIGVE  
FVGNCVVLFAALFAVIGRSSLNPGLVGLSVSYSLQVTFALNWMIRMMSDLESNIVAVERVKEYSKTETEAPWVVE  
GSRPPEGWPPRGEVEFRNYSVRYRPGDLVLRDLSLHVHGGEKVGIVGRTGAGKSSMTLCLFRILEAAKGEIRID  
GLNVADIGLHDLRSQLTII PQDPILFSGTLRMNLDPF GSYSEEDIWWALELSHLHTFVSSQPAGLDFQCSEGEN  
LSVGQRQLVCLARALLRKSRI LVLDEATAAIDLETDNLIQATIRTQFDTCTVLTIAHRLNTIMDYTRVLVLDKGV  
VAEFDSPANLIAARGIFYGMARDAGLA

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**FIGURE 1267**

CGATTTTCATTCTCGCTCCCCACAGGTCCCTCTCCCCAAAATATTCCCATCTTGTCTAGCCCATCCCCAGACT  
ATCTCAAGGACCAGCTGTCCCCACGCCCCGACCTCCACTAGGCCTGTGCCACCCGCTGCCTGCAGGAAGACGCC  
CGGTCCCGGGCCGGGTTAGCCCCATGGAACGCAGCGCCTGTGTGGCCGCGGGACTCAAGGCTGGCCTGGCTCAA  
GTGAACAGCACGTCCAGGAGGCGACCTCGTCCGCGGGTTTGCAATTCTGGGGTGGACGAGCTGGGGGTTTCGGTCCG  
AGCCCGGTGGGAGGCTCCCGGAGCGCAGCCTGGGGCCAGCCCACCCCGCGCCGGCGGCCATGGCAGGCACCCTGG  
ACCTGGACAAGGGCTGCACGGTGGAGGAGCTGCTCCGCGGGTGCATCGAAGCCTTCGATGACTCCGGGAAGGTGC  
GGGACCCGCGAGCTGGTGCATGTTCCTCATGATGCACCCCTGGTACATCCCCTCCTCTCAGCTGGCGGCCAAGC  
TGCTCCACATCTACCAACAATCCCGGAAGGACAATCCAATTCCCTGCAGGTGAAAACGTGCCACCTGGTCAGGT  
ACTGGATCTCCGCCTTCCAGCGGAGTTTGACTTGAACCCGGAGTTGGCTGAGCAGATCAAGGAGCTGAAGGCTC  
TGCTAGACCAAGAAGGGAACCGACGGCACAGCAGCCTAATCGACATAGACAGCGTCCCTACCTACAAGTGGAAGC  
GGCAGGTGACTCAGCGGAACCCTGTGGGACAGAAAAAGCGCAAGATGTCCCTGTTGTTTGACCACCTGGAGCCCA  
TGGAGCTGGCGGAGCATCTCACCTACTTGGAGTATCGCTCCTTCTGCAAGATCCTGTTTCAGGACTATCACAGTT  
TCGTGACTCATGGCTGCACTGTGGACAACCCCGTCTGGAGCGGTTTCATCTCCCTCTTCAACAGCGTCTCACAGT  
GGGTGCAGCTCATGATCCTCAGCAAACCCACAGCCCCGAGCGGGCCCTGGTCATCACACACTTTGTCCACGTGG  
CGGAGAAGCTGCTACAGCTGCAGAACTTCAACACGCTGATGGCAGTGGTTCGGGGGCTGAGCCACAGCTCCATCT  
CCCGCCTCAAGGAGACCCACAGCCACGTTAGCCCTGAGACCATCAAGCTCTGGGAGGGTCTCACGGAAGTAGTGA  
CGGCGACAGGCAACTATGGCAACTACCGGCGTGGCTGGCAGCCTGTGTGGGCTTCCGCTTCCCGATCCTGGGTG  
TGCACCTCAAGGACCTGGTGGCCCTGCAGCTGGCACTGCCTGACTGGCTGGACCCAGCCCGGACCCGGCTCAACG  
GGGCCAAGATGAAGCAGCTCTTTAGCATCCTGGAGGAGCTGGCCATGGTGACCAGCCTGCGGCCACCAGTACAGG  
CCAACCCCGACCTGCTGAGCCTGCTCACGGTGTCTCTGGATCAGTATCAGACGGAGGATGAGCTGTACCAGCTGT  
CCCTGCAGCGGGAGCCGCGCTCCAAGTCTCGCCAACCAGCCCCACGAGTTGCACCCCAACCCCGGCCCGG  
TACTGGAGGAGTGGACCTCGGCTGCCAAACCCAAGCTGGATCAGGCCCTCGTGGTGGAGCACATCGAGAAGATGG  
TGGAGTCTGTGTTCCGGAACCTTTGACGTCGATGGGGATGGCCACATCTCACAGGAAGAATTCCAGATCATCCGTG  
GGAACCTTCCCTTACCTCAGCGCCTTTGGGGACCTCGACCAGAACCAGGATGGCTGCATCAGCAGGGAGGAGATGG  
TTTCCTATTTCTGCGCTCCAGCTCTGTGTTGGGGGGCGCATGGGCTTCGTACACAACCTTCCAGGAGAGCAACT  
CCTTGCGCCCCGTGCGCTGCCGCCACTGCAAAGCCCTGATCCTGGGCATCTACAAGCAGGGCCTCAAATGCCGAG  
CCTGTGGAGTGAACCTGCCACAAGCAGTGCAAGGATCGCCTGTCAGTTGAGTGTGCGCGCAGGGCCCAGAGTGTGA  
GCCTGGAGGGGTCTGCACCCTCACCTCACCCATGCACAGCCACCATCACCGCGCCTTCAGCTTCTCTGCCCC  
GCCCTGGCAGGCGAGGCTCCAGGCCTCCAGAGATCCGTGAGGAGGAGGTACAGACGGTGGAGGATGGGGTGTGTTG  
ACATCCACTTGTAATAGATGCTGTGGTTGGATCAAGGACTCATTCTGCCTTGGAGAAAATACTTCAACCAGAGC  
AGGGAGCCTGGGGGTGTGCGGGCAGGAGGCTGGGGATGGGGTGGGATATGAGGGTGGCATGCAGCTGAGGGCAG  
GGCCAGGGCTGGTGTCCCTAAGGTTGTACAGACTCTTGTGAATATTTGTATTTTCCAGATGGAATAAAAAGGCC  
GTGTAATTAACCTTCA

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**FIGURE 1268**

MGTQRLCGRGTQGWPGSSEQHVQEATSSAGLHSGVDELGVRSEPGGRLPERSLGPAPAPAAAMAGTLDLDKGCTV  
EELLRGCIEAFDDSGKVRDPQLVRMFLMMHPWYIPSSQLAAKLLHIYQQSRKDNSNSLQVKTCHLVRYWISAFPA  
EFDLNP ELAEQIKELKALLDQEGNRRHSSLIDIDSVPTYKWK RQVTQRNPVGQKKRKMSLLFDHLEPMELAEHLT  
YLEYRSFCKILFQDYHSFVTHGCTVDNPVLERFISLFNSVSQWVQLMILSKPTAPQRALVITHFVHVAEKLLQLQ  
NFNTLMAVVGGLSHSSISRLKETHSHVSPETIKLWEGLTELVTATGNYGNYRRRLAACVGFRFPILGVHLKDLVA  
LQLALPDWLDPARTRLNGAKMKQLFSILEELAMVTSLRPPVQANPDLLSLLTVSLDQYQTEDELYQLSLQREPRS  
KSSPTSPTSCTPPPRPPVLEEWTSAAKPKLDQALVVEHIEKMVESVFRNFDVDGDGHI SQEEFQIIRGNFPYLSA  
FGDLDQNQDGCISREEMVSYFLRSSSVLGGRMGFVHN FQESNSLRPVACRHCKALILGIYKQGLKCRACGVNCHK  
QCKDRLSVECRRAQSVSLEGSAPSPSPMHSHHHRAF SFS LPRPGRRGSRPPEIREEEVQTVEDGVFDIHL

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**FIGURE 1269**

GCCATAAAGGCCGCGCGCGCCACGCGCCTCGCTTGCTGCGCGCTGCCGGCGCTCCTTCCTCCTCGGCTCGCGT  
CTCACTCAGTGACCTTCTAGTCCCGCC**ATGG**CCGCTCTCACCCGGGACCCCCAGTTCCAGAAGCTGCAGCAATG  
GTACCGCGAGCACCGCTCCGAGCTGAACCTGCGCCGCTCTTCGATGCCAACAAGGACCGCTTCAACCACCTTCAG  
CTTGACCCCTCAACACCAACCATGGGCATATCCTGGTGGATTACTCCAAGAACCTGGTGACGGAGGACGTGATGCG  
GATGCTGGTGGACTTGGCCAAGTCCAGGGGCGTGGAGGCCGCCCGGGAGCGGATGTTCAATGGTGAGAAGATCAA  
CTACACCGAGGGTCGAGCCGCTGCTGCACGTGGCTCTGCGGAACCGGTCAAACACACCCATCCTGGTAGACGGCAA  
GGATGTGATGCCAGAGGTCAACAAGTTCTGGACAAGATGAAGTCTTTCTGCCAGCGTGTCCGGAGCGGTGACTG  
GAAGGGGTACACAGGCAAGACCATCACGGACGTCAACATTGGCATTGGCGGCTCCGACCTGGGACCCCTCAT  
GGTGACTGAAGCCCTTAAGCCATACTCTTCAGGAGGTCCCCGCGTCTGGTATGTCTCCAACATTGATGGAACCTCA  
CATTGCCAAAACCTGGCCAGCTGAACCCCGAGTCTCTCCCTGTTTCATCATTGCCTCCAAGACCTTTACTACCCA  
GGAGACCATCACGAATGCAGAGACGGCGAAGGAGTGGTTTTCTCCAGGCGGCCAAGGATCCTTCTGCAGTGGCGAA  
GCACTTTGTTGCCCTGTCTACTAACACAACCAAAGTGAAGGAGTTTGAATTGACCCTCAAAACATGTTTCGAGTT  
CTGGGATTGGGTGGGAGGACGCTACTCGCTGTGGTTCGGCCATCGGACTCTCCATTGCCCTGCACGTGGGTTTTGA  
CAACTTCGAGCAGCTGCTCTCGGGGGCTCACTGGATGGACCAGCACTTCGCGACGACGCCCCCTGGAGAAGAACGC  
CCCCGTCTTGCTGGCCCTGCTGGGTATCTGGTACATCAACTGCTTTGGGTGTGAGACACACGCCATGCTGCCCTA  
TGACCAGTACCTGCACCGCTTTGCTGCGTACTTCCAGCAGGGCGACATGGAGTCCAATGGGAAATACATCACCAA  
ATCTGGAACCCGTGTGGACCACCAGACAGGCCCCATTGTGTGGGGGGAGCCAGGGACCAATGGCCAGCATGCTTT  
TTACCAGCTCATCCACCAAGGCACCAAGATGATACCTGTGACTTCTCATCCCGGTCCAGACCCAGCACCCCAT  
ACGGAAGGGTCTGCATCACAAGATCCTCCTGGCCAACCTCTTGGCCCAGACAGAGGCCCTGATGAGGGGAAAATC  
GACGGAGGAGGCCCCGAAAGGAGCTCCAGGCTGCGGGCAAGAGTCCAGAGGACCTTGAGAGGCTGCTGCCACATAA  
GGTCTTTGAAGGAAATCGCCCAACCAACTCTATTGTGTTACCAAGCTCACACCATTTCATGCTTGGAGCCTTGGT  
CGCCATGTATGAGCACAAGATCTTCGTTACGGGCATCATCTGGGACATCAACAGCTTTGACCAGTGGGGAGTGGGA  
GCTGGGAAAAGCAGCTGGCTAAGAAAATAGAGCCTGAGCTTGATGGCAGTGCTCAAGTGACCTCTCACGACGCTTC  
TACCAATGGGCTCATCAACTTCATCAAGCAGCAGCGCGAGGCCAGAGTCCAAT**TAA**ACTCGTGCTCATCTGCAGCC  
TCCTCTGTGACTCCCCCTTCTCTTCTCGTCCCTCCTCCCCGGAGCCGGCACTGCATGTTCTGACACCAACCAG  
AGCACCCCTCTGGTTGTGGGCTTGGACCACGAGCCCTTAGCAGGGAAGGCTGGTCTCCCCCAGCCTAACCCCCAGC  
CCCTCCATGTCTATGCTCCCTCTGTGTTAGAATTGGCTGAAGTGTGTTTTGTGCAGCTGACTTTTCTGACCCATGT  
TCACGTTGTTACATCCCATGTAGAAAAATAAAGATGCCACGGAGGAGGT

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**FIGURE 1270**

MAALTRDPQFQKLQQWYREHRSELNLRRLFDANKDRFNHFSLTLTNTNHGHILVDYSKNLVTEDVMRMLVDLAKSR  
GVEAARERMFNGEKINYTEGRAVLHVALRNRSNTPILVDGKDVMPEVNVLDKMKSFQQRVRSQDWKGYTGKTIT  
DVINIGIGGSDLGPLMVTEALKPYSSGGPRVWYVSNIDGTHIAKTLAQLNPESLFIASKTFTTQETITNAETA  
KEWFLQAAKDPSAVAKHFVALSTNTTKVKEFGIDPQNMFEFWDWVGGRYSLWSAIGLSIALHVGFDNFEQLLSGA  
HWMDQHFRTTPLEKNAPVLLALLGIWYINCFGCETHAMLPYDQYLHRFAAYFQQGDMESENGKYITKSGTRVDHQT  
GPIVWGEPTNGQHAFYQLIHQGTKMIPCDFLIPVQTQHPIRKGLHHKILLANFLAQTEALMRGKSTEEARKELO  
AAGKSPEDLERLLPHKVFEGNRPTNSIVFTKLTPFMLGALVAMYEHKIFVQGIWDINSFDQWGVLELQKQLAKKI  
EPELDGSAQVTSHDASTNGLINFIKQQREARVQ

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**FIGURE 1271**

CCAAATTATTGTATCTCACAGTGTGGGGAAAAGGAAGAGAGATCAGATTGTTACTGTGTCTGTGTAGAAAAGAAGT  
AGACATAGGAGACTCCATTTTGTATGTACTAAGAAAAATTCTTCTGCCTTGAGATTCTGTTAATCTATAACCTT  
ACCCCCCAACCCCGTGCTCTCTGAAACATGTGCTGTGTCCCTCTCAGAATTGCCTGTTTTTTGTGCTCCTCCGAGC  
TCGCTGTTCTCGTCCGGGTTTTTTACGTTTTTAATTTCCAGGACTTGAAGTGCCATGTCTCTGAAGAAGGAAAGCTC  
TTCGTGGGAGGGCTCAACTTTAACACCGACGAGCAGGCACTGGAAGACCACTTCAGCAGTTTCGGACCTATCTCT  
GAGGTGGTCGTTGTCAAGGACCGGGAGACTCAGCGGTCCAGGGGTTTTGGTTTCATCACCTTCACCAACCCAGAG  
CATGCTTCAGTTGCCATGAGAGCCATGAACGGAGAGTCTCTGGATGGTCGTCAGATCCGTGTGGATCATGCAGGC  
AAGTCTGCTCGGGGAACCAAGAGGAGGTGGCTTTGGGGCCCATGGGCGTGGTCGCAGCTACTCTAGAGGTGGTGGG  
GACCAGGGCTATGGGAGTGGCAGGTATTATGACAGTCGACCTGGAGGGTATGGATATGGATATGGACGTTCCAGA  
GACTATAATGGCAGAAACCAGGGTGGTTATGACCGCTACTCAGGAGGAAATTACAGAGACAATTATGACAACTGA

AATGAGACATGCACATAATATAGATACACAAGGAATAATTTCTGATCCAGGATCGTCCTTCCAAATGGCTGTATT  
TATAAAGGTTTTTGGAGCTGCACTGAAGCATCTTATTTTATAGTATATCAACCTTTTGTTTTTAAATTGACCTGC  
CAAGGTAGCTGAAGACCTTTTAGACAGTTCCCATCTTTTTTTTTTAAATTTTTCTGCCTATTTAAAGACAAATTA  
TGGGACGTTTGTAGAACCTGAGTATTTTTCTTTTTACCAGTTTTTTAGTTTGAGCTCTTAGGTTTATTGGAGCTA  
GCAATAATTGGTTCCTGGCAAGTTTGGCCAGACTGACTTCAAAAAATTAATGTGTATCCAGGGACATTTTAAAACC  
TGTACACAGTGTATTATTGTGGTTAGGAAGCAATTTCCCAATGTACCTATAAGAAATGTGCATCAAGCCAGCCTGA  
CCAACATGGTGAAACCCCATCTGTACTAAACATAAAAAAATTAGCCTGGCATGGTGGTGTACGCCTGTAATCCCA  
GTGACTTGGGAGGCTGAGGCAGGAGAATCGCTTGAACCCGGGAGGCGGAGGTTGCAGTGAGCTAAGATCGCGCCA  
CTGTACTCCAGCCTGGACAACAGCGAGAGCTCCATCTCAAAAAAAGGAAATGTGTATCAAGAACATGATTAT  
CCAGCGGTATTTTCTAATTCAGATCATCAAAGTATTATATAGAAGAGTTGGCTTTAAATGTTTGCAAAATGTCG  
ATGTTGAGAAATGGTATTTCTTCAGTTTTATTTTAGGATTTCTATAGTTTGATGATC

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**FIGURE 1272**

MSSEEGKLFVGGLNFNTDEQALEDFSSFGPISEVVVKDRETQRSRGFGFITFTNPEHASVAMRAMNGESLDGR  
QIRVDHAGKSARGTRGGGFGAHGRGRSYSRGGGDQGYGSGRYYDSRPGGYGYGYGRSRDYNGRNQGGYDRYSGGN  
YRDNYDN



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**FIGURE 1273**

TGGGAGGGAGCCATGAAGCATTACGAGGTGGAGATTCTGGACGCAAAGACAAGGGAGAAGCTGTGTTTCTTCGCC  
GCGTGGATGGCCTATTACATCAATCACCCCTCTCTACACTCCCCCTACCTACGGAGCTCAGCAGGTGAAACTGGCG  
CTCGCCATCTTTGTGATCTGCCAGCTCGGCAACTTCTCCATCCACATGGCCCTGCGGGACCTGCGGCCCGCTGGG  
TCCAAGACGCGGAAGATCCCATACCCCACCAAGAACCCCTTCACGTGGCTCTTCCTGCTGGTGTCTGCCCCAAC  
TGCACCTACGAGGTGGGGTCTCTGGATCGGTTTCGCCATCATGACGCAGTGTCTCCCAGTGGCCCTGTTCTCCCTG  
GTGGGCTTCACCCAGATGACCATCTGGGCCAAGGGCAAGCACCGCAGCTACCTGAAGGAGTTCCGGGACTACCCG  
CCCCTGCGCATGCCCATCATCCCCTTCCTGCTCTGAGCAGCTCACCCCTGCTGAGGCTCAGCCCCTCAACCCGGT  
GGCATTCTGGGGGAGGAGTGGGGCCACAGCTCTCCAGCACCCGGAATAAAGCCCGCCTGTCCCCAGTCGGAACA  
AAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1274**

MKHYEVEILDAKTREKLCFFAAWMAYYINHPLYTPPTYGAQQVKLALAIFVICQLGNFSIHMALRDLRPAGSKTR  
KIPYPTKNPFTWLFLLVSCPNTYEVGSWIGFAIMTQCLPVALFSLVGFTQMTIWAKGKHSYLSKEFRDYPPLRM  
PIIPFLL

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**FIGURE 1275**

ACCCAGGGTCCGGCCTGCGCCTTCCCGCCAGGCCTGGACACTGGTTCAACACCTGTGACTTCATGTGTGCGCGCC  
GGCCACACCTGCAGTCACACCTGTAGCCCCCTCTGCCAAGAGATCCATACCGAGGCAGCGTCGGTGGCTACAAGC  
CCTCAGTCCACACCTGTGGACACCTGTGACACCTGGCCACACGACCTGTGGCCGCGGCCTGGCGTCTGCTGCGAC  
AGGAGCCCTTACCTCCCCTGTTATAACACCTGACAGCCACCTAACTGCCCCCTGCAGAAGGAGCAATGGCCTTGGC  
TCCTGAGAGGTAAGAGCCCCGGCCACCCCTCTCCAGATGCCAGTCCCCGAGCGCCCTGCAGCCGGCCCTGACTCTC  
CGCGGCCGGGCACCCGCAGGGCAGCCCCACGCGTGCTGTTTCGGAGAGTGGCTCCTTGGAGAGATCAGCAGCGGCT  
GCTATGAGGGGCTGCAGTGGCTGGACGAGGCCCCGACCTGTTTCCGCGTGCCCTGGAAGCACTTCGCGCGCAAGG  
ACCTGAGCGAGGCCGACGCGCGCATCTTCAAGGCCTGGGCTGTGGCCCCGCGGCAGGTGGCCGGCTAGCAGCAGGG  
GAGGTGGCCCGCCCCCGAGGCTGAGACTGCGGAGCGCGCCGGCTGGAAAACCAACTTCCGCTGCGCACTGCGCA  
GCACGCGTGCCTTCGTGATGCTGCGAGATAACTCGGGGGACCCGGCCGACCCGCACAAGGTGTACGCGCTCAGCC  
GGGAGCTGTGCTGGCGAGAAGGCCCAGGCACGGACCAGACTGAGGCAGAGGCCCCCGCAGCTGTCCACCACCAC  
AGGGTGGGCCCCCAGGGCCATTCTTGGCACACACACATGCTGGACTCCAAGCCCCAGGCCCCCTCCCTGCCCCAG  
CTGGTGACGAGGGGGACCTCCTGCTCCAGGCAGTGCAACAGAGCTGCCTGGCAGACCATCTGCTGACAGCGTCAT  
GGGGGGCAGATCCAGTCCCAACCAAGGCTCCTGGAGAGGGACAAGAAGGGCTTCCCCTGACTGGGGCCTGTGCTG  
GAGGCCCAGGGCTCCCTGCTGGGGAGCTGTACGGGTGGGCAGTAGAGACGACCCCCAGCCCCGGGCCCCAGCCG  
CGGCACTAACGACAGGCGAGGCGCGGGCCCCAGAGTCCCCGCACCAGGCAGAGCCGTACCTGTCACCCCTCCCCAA  
GCGCCTGCACCGCGGTGCAAGAGCCCAGCCCAGGGGCGCTGGACGTGACCATCATGTACAAGGGCCGCACGGTGC  
TGCAGAAGGTGGTGGGACACCCGAGCTGCACGTTCTTATACGGCCCCCAGACCCAGCTGTCCGGGCCACAGACC  
CCCAGCAGGTAGCATTTCCCAGCCCTGCCGAGCTCCCGGACCAGAAGCAGCTGCGCTACACGGAGGAACTGCTGC  
GGCACGTGGCCCCCTGGGTTGCACCTGGAGCTTCGGGGGCCACAGCTGTGGGCCCGGCGCATGGGCAAGTGCAAGG  
TGTA CTGGGAGGTGGGCGGCCCCCAGGCTCCGCCAGCCCCCTCCACCCAGCCTGCCTGCTGCCTCGGAACTGTG  
ACACCCCCATCTTCGACTTCAGAGTCTTCTTCCGAGAGCTGGTGGAAATTCGGGGACGGCAGCGCCGTGGCTCCC  
CACGCTATACCATCTACCTGGGCTTCGGGCAGGACCTGTCAGCTGGGAGGCCCAAGGAGAAGAGCCTGGTCTTG  
TGAAGCTGGAACCCCTGGCTGTGCCGAGTGACCTAGAGGGCACGCAGCGTGAGGGTGTGTCTTCCCTGGATAGCA  
GCAGCCTCAGCCTCTGCCTGTCCAGCGCCAACAGCCTCTATGACGACATCGAGTGCTTCTTATGGAGCTGGAGC  
AGCCCGCCTAGAACCCAGTCTAATGAGAACTCCAGAAAGCTGGAGCAGCCACCTAGAGCTGGCC

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**FIGURE 1276**

MPVPERPAAGPDSRPGRRAAPRVLFGEWLLGEISSGCEGLQWLDEARTCFRVPWKHFARKDLSEADARIFKA  
WAVARGRWPPSSRGGGPPPEAETAERAGWKTNFRCLRSTRRFVMLRDNSGDPADPHKVYALSRELCWREGPGTD  
QTEAEAPAAVPPPQGGPPGPF LAH THAGLQAPGPLPAPAGDEGDLLLQAVQQSCLADHLLTASWGADVP TKAPG  
EGQEGLEPLTGACAGGPGLPAGELYGWAVETTPSPGPQPAALT TGEAAAPESPHQAEPYLSPPSACTAVQEPPSPG  
ALDVTIMYKGRTVLQKVVGHPSC TFLYGPPDPAVRATDPQQVAFPSPAELPDQQLRYTEELLRHVAPGLHLELR  
GPQLWARRMGKCKVYWEVGGPPGSASPSTPACLLPRNCDTPIFDFRVFFRELVEFRARQRRGSPRYTIYLGFGQD  
LSAGRPKEKSLVLVKLEPWLCRVHLEGTQREGVSSLDSSSLSLCLSSANS LYDDIECFLEMELEQPA

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**FIGURE 1277**

ACTGATGTCTTGACTCATGGGTGTATTACAAAATTCTGTTACTTCAAGTCTTTTTCTTTTAACGGATTGATCTTT  
TGCTAGATAGAGACAAAATATCAGTGTGAATTACAGCAAACCCCTATTCCATGCTGTTATGGGTGAAACTCTGGG  
AGATTCTCCTATTGACCCAGAAAGCGATTCTTCACTGATACACTGTCTGCAAACATATCACAAGAAATGACCAT  
GGTTGACACAGAGATGCCATTCTGGCCCACTTTGGGATCAGCTCCGTGGATCTCTCCGTAATGGAAGACCA  
CTCCCACTCCTTTGATATCAAGCCCTTCACTACTGTTGACTTCTCCAGCATTTCTACTCCACATTACGAAGACAT  
TCCATTACACAAGAACAGATCCAGTGGTTGCAGATTACAAGTATGACCTGAAACTTCAAGAGTACCAAAGTGCAAT  
CAAAGTGGAGCCTGCATCTCCACCTTATTATTCTGAGAAGACTCAGCTCTACAATAAGCCTCATGAAGAGCCTTC  
CAACTCCCTCATGGCAATTGAATGTCGTGTCTGTGGAGATAAAGCTTCTGGATTTCACTATGGAGTTTCATGCTTG  
TGAAGGATGCAAGGGTTTCTTCCGGAGAACAATCAGATTGAAGCTTATCTATGACAGATGTGATCTTAAGTGTCTG  
GATCCACAAAAAAGTAGAAATAAATGTCAGTACTGTCTGGTTTCAGAAATGCCTTGAGTGGGGATGTCTCATAA  
TGCCATCAGGTTTGGGCGGATGCCACAGGCCGAGAAGGAGAAGCTGTTGGCGGAGATCTCCAGTGATATCGACCA  
GCTGAATCCAGAGTCCGCTGACCTCCGGGCCCTGGCAAAACATTTGTATGACTCATAACATAAAGTCCTTCCCGCT  
GACCAAAGCAAAGGCGAGGGCGATCTTGACAGGAAAGACAACAGACAAATCACCATTCTGTTATCTATGACATGAA  
TTCCTTAATGATGGGAGAAGATAAAATCAAGTTCAAACACATCACCCCCCTGCAGGAGCAGAGCAAAGAGGTGGC  
CATCCGCATCTTTAGGGCTGCCAGTTTCGCTCCGTGGAGGCTGTGCAGGAGATCACAGAGTATGCCAAAAGCAT  
TCCTGGTTTGTAAATCTTGACTTGAACGACCAAGTAACTCTCCTCAAATATGGAGTCCACGAGATCATTTACAC  
AATGCTGGCCTCCTTGATGAATAAAGATGGGGTTCTCATATCCGAGGGCCAAGGCTTCATGACAAGGGAGTTTCT  
AAAGAGCCTGCGAAAGCCTTTTGGTGACTTTATGGAGCCCAAGTTTGAGTTTGCTGTGAAGTTCAATGCAGTGGG  
ATTAGATGACAGCGACTTGGCAATATTTATTGCTGTCTATTCTCAGTGGAGACCGCCCAGGTTTGCTGAATGT  
GAAGCCCATGGAAGACATTCAAGACAACCTGCTACAAGCCCTGGAGCTCCAGCTGAAGCTGAACCACCCTGAGTC  
CTCACAGCTGTTTGCCAAGCTGCTCCAGAAAATGACAGACCTCAGACAGATTGTCACGGAACACGTGCAGCTACT  
GCAGGTGATCAAGAAGACGGAGACAGACATGAGTCTTCAACCGCTCCTGCAGGAGATCTACAAGGACTTGTACTA  
GCAGAGAGTCTTGAGCCACTGCCAACATTTCCCTTCTTCCAGTTGCACTATTCTGAGGGAAAATCTGACACCTAA  
GAAATTTACTGTGAAAAAGCGTTTTAAAAAGAAAAGGATTTAGAATATGATCTATTTTATGCATATTGTTTATAA  
AGACACATTTACAATTTACTTTTAATATTAAAAATTACCATATTATGAAATTGC

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**FIGURE 1278**

MGETLGDSPIDPESDSFTDTLSANISQEMTMVDTEMPFWPTNFGISSVDLSVMEDHSHSFDIKPFTTVDFSSIST  
PHYEDIPFTRTDPVVADYKYDLKLQEYQSAIKVEPASPPYYSEKTQLYNKPHEEPSNSLMAIECRVCGDKASGFH  
YGVHACEGCKGFFRRTIRLKLIDRCDLNCRIHKKSRNKCQYCRFQKCLAVGMSHNAIRFGRMPQAEKEKLLAEI  
SSDIDQLNPESADLRALAKHLYDSYIKSFPLTKAKARAILTGKTTDKSPFVIYDMNSLMMGEDKIKFKHITPLQE  
QSKEVAIRIFQGCQFRSVEAVQEITEYAKSIPGFVNLDLNDQVTLLKYGVHEIIYTMLASLMNKDGVLISEGQGF  
MTREFLKSRLKPFGRDFMEPKFEFAVKFNALELDDSDLAIFIAVILSGDRPGLLNVKPIEDIQDNLLQALELQLK  
LNHPESSQLFAKLLQKMTDLRQIVTEHVQLLQVIKKTETDMSLHPLLQEIYKDLY

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**FIGURE 1279A**

CGGGCCCAGGCGGGGTGCGAGTGGCGCAGTCGGAGCCCCTTGCGGGCCCCTGAGGAAGCGAGGAGGCGTCGGCGTCTC  
GGCTGAGGCGGGCGGACCGGCGAGGCGAGGCGGGCGGCCCCAGGCCCGAGGGACTCGGGAGCTCGAGCAGCGGCGG  
CGGCAAGACCTCTCCCCCTCGGAGGCGGGCGGGCGGAGGCGGGCGGGAGCGGTGGTGGCCCCCCCCGGGCACGGGGCC  
**ATGT**TACAACGGGATCGGGGTGCCGACGCCCCGGGGCAGCGGCACCAACGGCTACGTCCAGCGCAACCTGTCCCTG  
GTGCGGGGCCGCCGGGGTGAGCGGCCTGACTACAAGGGAGAGGAGGAAGTGCGGCGCCTGGAGGCTGCCCTGGTG  
AAGCGGCCTAATCCTGACATCCTGGACCACGAGCGCAAGCGGCGCGTTCGAGCTGCGATGCCTCGAGCTGGAGGAG  
ATGATGGAAGAGCAGGGGTACGAGGAACAGCAAATTCAGGAAAAAGTGGCGACCTTTCGACTCATGTTGCTGGAG  
AAGGATGTGAACCTTGGGGCAAGGAGGAGACCCAGGGCAGAGGCCAGCGGTCACGGAGACTCACCAGTTGGCA  
GAATTAAATGAGAAGAAGAATGAAAGACTCCGTGCTGCCTTTGGCATCAGTGATTCTTACGTAGATGGCAGCTCT  
TTTGATCCTCAGCGTCGTGCCCCGAGAAGCTAAACAACCAGCTCCTGAGCCTCCCAAACCTTACAGCCTTGTTCCG  
GAGTCTAGCAGTTCTCGCTCACCAACCCCCAAGCAGAAGAAGAAGAAAAAGATAAGAGGACGCAGGTCA  
GAGAGCAGCTCTCCTCGACGGGAGAGAAAGAAAAGCTCAAAGAAGAAGAAGCACAGGTGAGAATCTGAGTCCAAG  
AAACGTAAGCATAGGTCTCCCACTCCAAAGAGCAAACGTAAATCTAAGGACAAAAAGCGAAAGCGGTCTCGAAGT  
ACAACACCAGCCCCCAAGAGCCGCCGGGCCACCCTTCAACTTCTGCTGACTCTGCTTCTCCTCCGATACTTCC  
CGCAGTCGGTCTCGAAGTGCTGCAGCTAAAACTCATAAACTGCCTTGGCTGGGCGAAGTCTTCCCCCTGCTTCA  
GGGCGACGCGGGGAGGGAGATGCGCCTTTCAGTGAACCAGGTACTACCAGCACACAACGGCCTAGTAGCCCGGAG  
ACTGCTACGAAACAGCCTAGCAGCCCTTATGAAGACAAAGATAAAGACAAGAAGGAGAAATCTGCAACTCGACCT  
AGCCCCCTCTCCGAAAGGAGCAGCACAGGCCAGAAACACCTGCTCCCACTCCGCTCCTTGCTGAGCGACATGGC  
GGCTCCCCACAACCCCTTGCAACCACCCCTTAAAGCCAGGAGCCAGTGAACCCCCCATCTGAGGCCTCTCCAACCT  
CGGGACCGTTTACCACCTAAGTCTCCCCGAGAAACTTCCCCAGTCTTCTTCTCCTCAGAGAGCAGCCACCATCCCCCT  
CAACCTACCAAAGTTTCTCGGCATGCCAGCTCTTCCCCAGAAAGTCTTAAACCTGCTCCAGCTCCAGGGTCCCAC  
CGAGAGATTTCTTCTTCTCCACATCTAAGAATCGCTCACATGGCCGAGCAAAACGGGATAAATCACATTCTCAT  
ACCCCCCTCCCGTAGGATGGGGAGGTCCCGTAGCCCTGCCACCGCTAAGAGAGGGCGATCTCGGTCTCGAACCCCT  
ACCAAGAGAGGTCAATTCTCGATCCCGATCTCCCCAGTGGCGTAGGTCCAGGTCTGCACAGAGGTGGGGAAGATCT  
AGAAGCCCCCAGCGACGTGGCCGCTCTAGGTCTCCTCAGCGACCAGGCTGGTCTAGGAGCAGAAATACCCAGAGA  
AGAGGCAGGTCTAGGTGAGCAAGGCGAGGGAGGTCCCACTCTAGATCCCGAGCCACTAGGGGTAGATCTCGTTCT  
AGAACACCAGCCCGCCGGGGCAGGTCCCGCTCTAGAACACCTGCCAGGCGGAGATCACGATCCAGAACTCCCACC  
AGGCGTAGGTCTCGGTCTAGAACACCAGCCCGGAGGGGCGAGGTCTCGGTCTAGAACACCTGCTAGGCGCAGATCT  
AGGACCCGATCACAGTACGACGCGAGGTCTCGTAGTAGATCACAGCCAGGAGAAGTGGCAGGTACGCTCTAGA  
ACCCAGCTAGACGTGGCCGCTCACGCTCCAGAACCCAGCCAGAGGTGGCCGCTCACGCTCTAGAACCCAGCT  
AGACGCAGTGGTCTGCTCACGCTCCAGAACACCAGCCAGGAGAGGGAGGTCTCGGTCTAGGACACCAAGACGAGGA  
AGATCCCGCAGTAGAAGCTTAGTTAGACGTGGAAGATCTCACTCTAGAACACCTCAAAGAAGAGGCAGATCTGGC  
TCATCTTCAGAGCGGAAAAACAAATCCAGAACATCTCAAAGAAGAAGCAGGTCCAATTCAAGCCAGAAATGAAG  
AAATCTCGCATTTCTTCAAGGCGGAGCAGGTCTCTCTCTTACCACGGTCCAAAGCAAAATCTCGCTTGCTTTG  
AGGCGCAGCCTTTCAGGGTCTTCCCCATGCCCTAAGCAAAAGTACAGACACCACCCAGGCGCAGTCGCTCTGGA  
TCCTCCCAACCTAAAGCTAAATCTAGAAGCCACCCAGACGCGAGTTCGCTCCAGTTCTTCTCCGCCACCTAAACAG  
AAATCTAAGACACCATCAAGACAAAGTCATTCCAGTTCATCTCCTCATCTTAAAGTGAAATCTGGAACACCACCG  
AGGCAAGGGTCCATAACAAGTCCCAGGCCAATGAGCAATCTGTAACGCCACAGAGACGGAGCTGTTTTGAATCA  
TCACCTGACCCTGAGTTGAAATCTAGGACCCCTTCTAGACATAGCTGCTCAGGGTCTCTCCTCCTAGAGTGAAA  
TCTAGCACACCTCCCAGACAGAGCCCATCTAGGTTCATCTCCACAACCCAAAGTGAAAGGCAATAATATCACCA  
AGACAAAAGAGCCATTCTGGCTCCTCTTCTCCAAGTCTTAGTAGGGTGACGTCGAGAACAACCTCCACGGCGAAGC  
AGATCAGTATCTCCCTGCTCCAATGTGGAATCCAGATTGTTGCCAAGATACAGTCATTCTGGGTCTCTCCTCACCA  
GATACCAAAGTGAAACCTGAAACACCGCCAAGACAAAAGTCACTCAGGGTCTATTTACCATAACCCCAAAGTAAAG  
GCCCCAACTCCACCGGGGCCAAGTCTTTCTGGATCAAAGTCACCATGTCCCCAAGAGAAGTCTAAAGACTCACTA  
GTTCAAAGTTGCCCTGGATCCCTCTCTCTCTGTGTCAGGAGTAAATCTAGCACACCACCAGGCGAGAGCTATTTT  
GGTGTCTCATCTCTGCAACTGAAAGGACAATCTCAAACCTTACCAGACCACAGATCTGATACTTCAAGTCCAGAA  
GTGAGACAGAGTCATTGAGAATCACCATCTCTGCAGAGCAAATCTCAAACATCACCTAAGGGAGGTCCGTCCAGG  
TCTTCATCTCCAGTCACTGAGCTGGCATCCAGATCTCCAATAAGACAAGATAGAGGTGAGTTCTCAGCGAGTCTCT

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**FIGURE 1279B**

ATGTTGAAATCTGGAATGTCTCCTGAGCAGAGCAGGTTCCAGTCTGACTCTTCTTCATATCCTACAGTGGACTCG  
AATTCTCTCTTGGGGCAGAGTAGATTGGAGACTGCTGAATCAAAGAGAAAATGGCCTTACCCCCCTCAGGAGGAT  
GCTACTGCATCACCTCCTAGACAGAAAGACAAATTTAGTCCCTTTCCAGTACAGGATAGGCCTGAGTCTTCACTG  
GTATTCAAAGACACACTTAGAACCCCGCCAAGAGAAAAGAAGTGGTGCTGGGTCTATCTCCAGAAACAAAAGAGCAA  
AATAGTGCATTGCCTACGTCAAGCCAAGATGAAGAGTTAATGGAGGTGGTAGAGAAGTCTGAAGAACCCGCAGGC  
CAATCCTGTCTCATTGTCTTTCAGAACTTAAAGAAATGTCCACAAGTAACCTTTGAATCATCTCCTGAAGTAGAA  
GAAAGGCCTGCTGTGTCTTTGACTCTTGATCAGAGCCAGTCACAGGCTTCTTTGGAAGCAGTAGAAGTCCCTTCA  
ATGGCCTCATCTTGGGGTGGGCCACATTTTTCTCCAGAACATAAAGAAGTGTCTAACTCCCCACTCAGGGAGAAC  
AGCTTTGGATCACCTTTAGAATTTAGAACTCAGGCCCACTTGGTACAGAAATGAATACTGGATTTTCTTCTGAG  
GTTAAAGAAGATTTGAATGGACCGTTTCTTAATCAGCTGGAACAGATCCATCTCTAGACATGAAAGAACAATCG  
ACAAGATCCTCTGGACACAGCAGTTCTGAGTTATCCCCAGATGCAGTGGAAAAGGCAGGGATGTCTTCAAATCAG  
AGCATCTCTTCACCTGTGCTTGATGCTGTACCCAGAACACCCTCGAGAGAAAGAAGTAGTTCTGCATCTTCTCCT  
GAAATGAAAGATGGTTTACCCAGAACTCCATCAAGGAGAAGCAGGTCTGGGTCTTCTCCAGGACTTAGAGATGGG  
TCTGGGACTCCCTCGAGGCACAGCCTGTCTGGGTCTCTCCTGGAATGAAAGATATACCTAGAACGCCATTTAGA  
GGGAGAAGCGAATGTGATTCTTCCCCAGAACCGAAAGCTTTGCCTCAGACTCCTAGGCCGAGGAGTCGTTCTCCA  
TCATCCCCAGAGCTCAACAACAAGTGTCTTACCCCCCAGAGAGAAAGAAGCGGGTCAGAATCATCAGTTGATCAG  
AAAAGTGTGGCTCGGACTCCCCTGGGGCAGAGAAGTCGTTTCGGGATCCTCTCAAGAAGTTGATGTGAAACCCAGT  
GCATCCCCCTCAGGAAAGAAGTGAGTCAGACTCTTCTCCAGATTCTAAAGCCAAGACACGAACCCCACTTCGGCAG  
AGGAGTCGGTCTGGATCATCTCCAGAGGTTGACAGCAAACTCTCGACTATCCCCTCGGCGCAGTAGGTCTGGTTCC  
TCCCCTGAAGTGAAAGATAAGCCAAGAGCAGCACCCAGGGCACAGAGTGGTTCTGATTCTCTCCTGAACCTAAA  
GCTCCAGCCCCCTCGGGCCCTTCCCAGACGAAGCAGATCAGGTTTCATCAAGCAAAGGCAGAGGCCCTTCTCCTGAA  
GGAAGCAGCAGTACCGAGTCCTCTCCTGAACATCCGCCCAAATCCAGAAGTCTCGCAGAGGTTCCAGGTCATCA  
CCAGAGCCCAAGACCAAGTCTCGTACACCACCTCGACGTCGCAGCTCTCGATCATCTCCGGAGCTAACAAGGAAG  
GCCAGACTGTCCCGTAGAAGCCGCTCTGCCTCATCCTCACCAGAACTCGCTCTAGAAGTCCCCCAAGGCACCGG  
AGAAGTCCCTCAGTGTCTTCCCCGGAGCCAGCCGAAAAATCGAGGTCTTACGCCGACGGCGCTCAGCTTCATCT  
CCACGCACTAAGACAACCTCAAGGAGAGGCCGCTCTCCTTCGCCAAAGCCTCGTGGACTCCAGAGGTCCCGTTCC  
CGCTCAAGGAGAGAGAAAAACAAGAACAACCCGACGTTCGAGATAGGTCTGGATCTTCTCAGTCAACCTCTCGGCGA  
AGACAGCGGAGCCGGTCAAGGTTCGCGGGTTACTCGCGCGCGGAGGGGAGGCTCTGGTTATCACTCAAGGTACCT  
GCCCGGCAGGAAAGTTCCCGGACCTCCTCTCGACGCCGAAGAGGCCGCTCTCGGACACCCCAACAGTCGGAAG  
CGTTCTCGCTCACGCACATCACCAGCCCCGTGGAAACGCTCTAGATCTCGAGCCTCTCCAGCCACTCACCGGCGA  
TCCAGGTCCAGAACCCCCCTGATAAGCCGACGTAGGTCCAGATCTCGAACTTCACCAGTCAGCCGGAGACGGTCA  
AGGTCCAGGACTTCAGTGACTCGACGAAGATCCCGGTCAAGAGCATCCCCAGTGAGCAGAAGGCGATCCAGATCC  
AGAACGCCACCAAGTAACCCGCCGTCGTTCAAGGTCTAGAACGCCAACACACGCCGCCGCTCCCGTTCTAGAAGT  
CCACCAGTGACTCGCAGAAGGTCCAGATCCAGGACTCCACCAGTAACCAGGAGGCGATCTCGAAGCAGAAGTTCG  
CCTATCACTCGCAGAAGATCAAGATCCAGAACATCTCCGGTCAACCGAAGGAGATCTCGATCTCGCACATCTCCA  
GTAAGTTCGAAGAAGGTCCCGCTCTCGAACCTCACCAGTGACACGCCGCCGCTCTAGGTCCCGGACACCTCCAGCT  
ATTTCGGCGCCGCTCTAGATCTCGAACGCCACTGTTACCACGCAACGTTCTCGAAGTCGCTCACCACCTTGCTATC  
CGCCGCCGCTCCAGATCCCGTACTCCACGAACAGCTCGGGGTAAACGGTCTTAACAAGATCTCCTCCAGCCATC  
CGCAGGCGTTCTGCATCTGGAAGTAGTTCTGATCGTTACGATCTGCTACTCCTCCAGCAACAAGAAATCATTCT  
GGTTACGGACACCTCCAGTAGCACTCAACAGTTCCAGAATGAGCTGCTTCAGTCGTCCTAGCATGTCCCCAACA  
CCTCTTGATCGCTGCAGATCACCTGGAATGCTTGAACCCCTTGGCAGCTCTAGAACACCCATGTCTGTCTCCTGCAG  
CAAGCCGGCGGCTCCATGATGGATGGTCCAGGTCCCCGAATACCTGACCACCAGAGAACATCTGTGCCAGAAAAT  
CATGCTCAGTCCAGGATTGCACTTGCCCTGACAGCTATCAGTCTTGGCACCGCTCGGCCTCCTCCGTCCATGTCT  
GCTGCTGGCCTTGCTGCAAGAATGTCCAGGTTCCAGCCCCGGTGCTCTCATGAGTCTCAGAACCGCACCCAGCA  
GCCAACCTTGCCAGCAGGATTCCCTGCAGCCTCTGCGGCAGCCATGAACCTAGCCAGCGCCAGGACACCTGCCATT  
CCAACAGCAGTGAACCTGGCTGACTCTCGAACGCCAGCTGCAGCAGCGGCCATGAACCTTGCCAGCCCCAGAACA  
GCGGTGGCACCTTCGGCTGTGAACCTGGCTGACCCTCGCACTCCCACAGCCCCAGCTGTGAACCTAGCAGGGGCC  
AGAACCCCACTGCCTTGGCAGCTCTGAGTCTCACAGGCTCTGGCACACCACCAACTGCTGCAAACTATCCCTCC



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**FIGURE 1279C**

[illegible]

MYNGIGLPTPRGSGTNGYVQRNLSLVRGRRGERPDYKGEELRRLLEALVKRPNPDILDHERKRRVELRCLLELEE  
 MMEEQGYEEQQIQIEKVATFRLMLLEKDVNPGGKEETPGQRPVATETHQLAELNEKKNERLRAAFGISDSYVDGSS  
 FDPQRRAREAKQPAPEPPPKPYSLVRESSSSSRSPTPKQKKKKKKKKDRGRSESSSPRRERKKSSKKKKHRSESESK  
 KRKHSRSPTPKSKRKSCKDKRKRSRSTTPAPKSRRAHRSTSADSASSSDTSRSRSRSAAAKTHTTALAGRSPSPAS  
 GRRGEGDAPFSEPGTTSTQRPSSPETATKQPPSPYEDKDKDKKEKSATRPSPPSPERSSTGPEPPAPTPLLAERHG  
 GSPQPLATTPLSQEPVNPPSEASPTRDRSPPKSPEKLPQSSSSSESSPSPQPTKVSRHASSSPESPAPAPGSH  
 REISSSPTSKNRSHGRAKRDKSHSHTPSRRMGRSRSPATAKRGRSRSRTPTKRGHSRSPQWRRSRSAQRWGRS  
 RSPQRRGRSRSPQRPGWSRNRNTQRRGRSRSAARRGRSHSRSPATRGRSRSRTPARRGRSRSRTPARRRSRSTPT  
 RRRSRSRTPARRGRSRSRTPARRRSRTRSPVRRRSRSPARRSGRSRSRTPARRGRSRSRTPARRGRSRSRTPA  
 RRSGRSRSRTPARRGRSRSRTPRRGRSRSRSLVRRGRSHSRTPQRRGRSGSSSERKNKSRTSQRRSRSNSSPEMK  
 KSRISRRSRSLSSPRSKAKSRLSLRRSLSGSSPCFPKQKSQTPPRRSRSGSSQPKAKSRTPPRRSRSSSSPFPKQ  
 KSKTPSRQSHSSSSPHPKVKSGTTPRQGSITSPQANEQSVTPQRRSCFESSPDPELKSRTPSRHSCSGSSPPRVK  
 SSTPPRQSPSRSSSPQPKVKAIISPRQRSHSGSSSPSPSRVTSRTTPRRSRSVSPCSNVESRLLPRYSHSGSSSP  
 DTKVKTPETPPRQSHSGSISPYPKVKAQTPPGPSLSGSKSPCPQEKSQSLVQSCPGSLSLCAGVKSSTPPGESYF  
 GVSSLQLKGQSQTSPDHRSDTSSPEVRQSHSESPSLQSKSQTSPKGGRSRSSSPVTELASRSPIRQDRGEFSASP  
 MLKSGMSPEQSRFQSDSSSYPTVDSNSLLGQSRLETAESKEKMALPPQEDATASPPRQKDKFSPFPVQDRPESSL  
 VFKDTLRTPPRERSGAGSSPETKEQNSALPTSSQDEELMEVVEKSEEPAGQILSHLSSELKEMSTSNFESSPEVE  
 ERPAVSLTLDQSQSQASLEAVEVPSMASSWGGPHFSPEHKELSNSPLRENSFGSPLEFRNSGPLGTEMNTGFSSE  
 VKEDLNGPFLNQLETPDPSLDMKEQSTRSSGHSSSELSPDAVEKAGMSSNQSISSPVLDAVPRTPSRERSSSASSP  
 EMKDGLPRTPSRRSRSGSSPGLRDGSGTSPSRHSLSGSSPGMKDIPRTPFGRSECDSSPEPKALPQTPRPRSRSP  
 SSELNNKCLTPQRERSGSESSVDQKTVARPTPLGQSRSRSGSSQELDVKPSASPQERSESDSSPDSKAKTRTPLRQ  
 RSRSGSSPEVDSKSRSLSPRRSRSGSSPEVKDKPRAAPRAQSGSDSSPEPKAPAPRALPRRSRSGSSSKGRGPSPE  
 GSSSTESSPEHPPKSRTARRGRSSPEPKTKSRTPPRRRSRSPPELTRKARLSRRSRSAASSSPETRSTPTPRHR  
 RSPSVSSPEPAEKSRSSRRRSASSPRTKTTSRGRSPSPKPRGLQSRSRSRREKTRTTRRRDRSGSSQSTSR  
 RQSRSRSRVTRRRRGSGYHSRSPARQESSRTSSRRRRGRSRTPTTSRKRSRSTSPAPWKRSRSPASPATHRR  
 SRSTPLISRRRSRSTSPVSRRRSRSTSVTRRRSRSPASPVSRRRSRSTPPVTRRRSRSTPTTRRRSRST  
 PPVTRRRSRSTPPVTRRRSRSTSPITRRRSRSTSPVTRRRSRSTSPVTRRRSRSTSPVTRRRSRSTPPA  
 IRRRSRSTPLLPKRSRSRSPLAIRRRSRSTPRTARGKRSLTRSPPAIRRRSAGSSSDRSRSATPPATRNHS  
 GSRTPPVALNSSRMSCFSRPSMSPTPLDRCRSPGMLEPLGSSRTPMVSVLQAGGSMMDGPGPRIPDHQRTSVPEN  
 HAQSRIALALTAISLGTARPPPSMSAAGLAARMSQVPAPVPLMSLRTAPAAANLASRIPAASAAAMNLAARTPAI  
 PTAVNLADSRTPAAAAAMNLAASPTAVAPSAVNLAADPRTPTAPAVNLAGARTPAALAALSLTGSPTPTAANYPS  
 SSRTPQAPASANLVGPRSAHATAPVNIAGSRATAALAPASLTSARMAPALSGANLTSRVPVLSAYERVSGRTSP  
 LLDRARSRTPPSAPSQSRMTSERAPSPSSRMGQAPSQSLPPAQDQPRSPVPSAFSDQSRCLIAQTTPVAGSQSL  
 SSGAVATTTSSAGDHNGMLSVAPGVPHSDVGEPPASTGAQQPSALAALQPAKERRSSSSSSSSSSSSSSSSSSSS  
 SSSSSSGSSSSDSEGSLLPVQPEVALKRVSPSTPAPKEAVREGRPPEPTPAKRKRSSSSSSSSSSSSSSSSSSSS  
 SSSSSSSSSSSSSSSSSSSSSSSSPSPAKPGPQALPKPASPKPPPGERRSRSPRKPIDSLDRSRLSYSPVERRR  
 PSPQSPRDOQSSSERGSRRGORGDSRSPSHKRRRETSPREMRHSSRSP

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**FIGURE 1281A**

GAATTTCGGGGAACGGTGTGGAGCGGAGGCCGCGGAGGCTCCTCGGTCCTTCAGCACCCCTCGGCCCCGACGCACCC  
ACGCCCCCTCACCCCCCGAGAGCCGAAAATGGACCCAAGTGGGGTCAAAGTGCTGGAAACAGCAGAGGACATCCAG  
GAGAGGCGGCAGCAGGTCCTAGACCGATACACCGCTTCAAGGAACCTCTCAACCCCTTAGGCGTCAGAAGCTGGAA  
GATTCTATCGATTCCAGTTCTTTCAAAGAGATGCTGAAGAGCTGGAGAAATGGATACAGGAAAACTTCAGATT  
GCATCTGATGAGAATTATAAAGACCCAACCAACTTGCAGGGAAAGCTTCAGAAGCATCAAGCATTGGAAGCTGAA  
GTGCAGGCCAACTCAGGAGCCATTGTTAAGCTGGATGAAACTGGAAACCTGATGATCTCAGAAGGGCATTGCA  
TCTGAAACCATACGGACCCGTTTGATGGAGCTGCACCGCCAGTGGGAATTACTTTTGGAGAAGATGCGAGAAAA  
GGAATCAAATTGCTGCAGGCCCAGAACTTGGTGCAGTACTTACGAGAATGTGAGGACGTGATGGACTGGATCAAT  
GACAAGGAAGCAATTGTTACTTCTGAAGAGCTGGGCCAGGATCTGGAGCATGTAGAGGTTTTACAGAAGAAATTT  
GAAGAGTTTCAAACAGATATGGCTGCTCATGAAGAAAGAGTTAATGAAGTGAACCAGTTTGTGCCAACTCATA  
CAGGAGCAGCACCCCTGAGGAGGAAGTATCAAGACTAAGCAGGATGAAGTCAATGCAGCCTGGCAGCGGCTGAAG  
GGCCTGGCTCTGCAGAGGCAGGGGAAGCTCTTTGGGGCAGCAGAAGTTCAGCGCTTTAACAGGGATGTGGATGAG  
ACTATCAGTTGGATTAAGGAAAAGGAGCAGTTAATGGCCTCTGATGATTTTGGCCGAGACCTGGCAAGTGTTT  
GCTCTGCTTCGGAAGCACGAGGGTCTGGAGAGAGATCTTGCTGCTCTAGAAGACAAGGTCAAAGCCCTGTGTGCT  
GAGGCTGACCGCTGCAACAGTCCCACCCCTCTGAGTGCAACACAGATTCAAGTGAAGCGAGAGGAAGTATTACA  
AACTGGGAGCAGATCCGCACCTTGGCGGCAGAGAGACATGCACGGCTCAATGATTTCATACAGGCTTCAACGCTTC  
CTTGCTGACTTCCGTGACCTCACCAGCTGGGTGACTGAGATGAAAGCCCTCATCAATGCAGATGAGCTTGCCAGT  
GATGTGGCTGGGGCTGAAGCCCTGCTAGATAGACACCAAGAGCACAAGGGTGAAATTGATGCCCATGAAGACAGC  
TTCAAATCTGCAGATGAATCTGGACAGGCACTGCTTGCTGCTGGTCACTATGCCTCAGATGAAGTGAGGGAGAAG  
CTGACCGTCTTTCCGAGGAGAGAGCGCGCTGCTGGAGCTGTGGGAGCTGCGCAGGCAGCAGTACGAGCAGTGC  
ATGGACCTGCAGCTCTTCTACCGGGACACTGAGCAGGTGGACAACCTGGATGAGCAAGCAGGAGGCGTTCTGTG  
AATGAAGACTTGGGAGATTTCTTGATAGTGTGGAAGCGCTTCTTAAGAAGCACGAAGACTTTGAGAAATCCCTT  
AGTGCCAGGAGGAAAAGATTACAGCATTAGATGAATTTGCAACCAAGCTAATTCAGAACAACCACTATGCAATG  
GAAGATGTGGCCACTCGCCGAGACGCTCTGTTGAGCCGCCGCAATGCCCTTACGAGAGAGCCATGCGTCGCCGG  
GCCAGCTAGCCGATTCTTTCCATCTGCAGCAGTTTTTCCGTGATTCTGATGAGCTCAAGAGTTGGGTGAATGAG  
AAGATGAAAACCTGCCACAGATGAAGCTTATAAGATCCATCCAACCTACAAGGAAAAGTACAGAAGCATCAGGCT  
TTTGAGGCTGAGCTCTCAGCAAACCAGAGCCGAATTGATGCCTTGAGAAAAGCTGGCCAAAAGCTGATTGATGTC  
AACCCTATGCCAAGGATGAAGTGGCAGCTCGTATGAATGAGGTGATCAGTTTGTGGAAGAACTGCTAGAGGCC  
ACTGAACTGAAAGGAATAAAGCTTCGTGAAGCCAACAGCAACAGCAATTTAATCGCAATGTTGAGGATATTGAA  
TTGTGGCTATATGAAGTAGAAGGTCACCTTGGCTTCGGATGATTACGGCAAAGATCTTACCAATGTGCAGAACCTC  
CAGAAGAAACATGCCCTGCTAGAGGCAGATGTGGCTGCTCACCAGGACCGAATTGATGGCGTCACCATTACAGGCC  
CGCCAGTTCCAAGATGCTGGCCATTTTGATGCAGAAAACATCAAGAAGAAACAGGAAGCCCTCGTGGCTCGCTAT  
GAGGCACTCAAGGAGCCCATGGTTGCCCGGAAGCAGAAGCTGGCCGATTCTCTGCGGTTGCAGCAGCTCTTCCGG  
GATGTTGAGGATGAGGAGACGTGGATTGAGAGAAAAGAGCCCATTGCCGCATCTACCAACAGAGGTAAGGATTTA  
ATTGGGGTCCAGAATCTGCTAAAGAAACATCAAGCCTTACAAGCAGAAATTGCTGGACATGAACCACGCATCAAA  
GCAGTTACACAGAAGGGGAATGCCATGGTGGAGGAAGGCCATTTTGTGCTGCAGAGGATGTGAAGGCCAAGCTTCAC  
GAGCTGAACCAAAAGTGGGAGGCACTGAAAGCAAAAGCTTCCCAGCGTCGGCAGGACCTGGAGGACTCTCTGCAG  
GCCCAGCAGTACTTTGCTGATGCTAACGAGGCTGAATCCTGGATGCGGGAGAAGGAACCCATTGTGGGCAGCACT  
GACTATGGCAAGGACGAAGACTCTGCTGAGGCTCTACTGAAGAAACACGAAGCTTTGATGTGAGATCTCAGTGCC  
TACGGCAGCAGCATCCAGGCTTTGCGAGAACAAGCACAGTCTGCGGCAACAAGTGGCCCCACGGATGATGAG  
ACTGGGAAGGAGCTGGTCTTGCTCTTACGACTATCAGGAGAAGAGTCCCCGAGAGGTACCATGAAGAAGGGA  
GATATCCTTACCTTACTCAACAGCACCAACAAGGATTGGTGGAAAGTGGAAAGTGAACGATCGTCAGGGTTTTGTG  
CCGGCTGCGTACGTGAAGAAATTGGACCCCGCCAGTCAGCCTCCCGGGAGAATCTCCTGGAGGAGCAAGGCAGC  
ATAGCACTGCGGCAGGAGCAGATTGACAATCAGACACGCATAACTAAGGAGGCCGGCAGTGTATCTCTGCGTATG  
AAGCAGGTGGAAGAACTATATCATTCTCTGCTGGAAGTGGGTGAGAAGCGTAAAGGCATGTTGGAGAAGAGTTGC  
AAGAAGTTTATGTTGTTCCGTGAAGCGAATGAACTACAGCAATGGATCAATGAGAAGGAAGCCGCTCTGACAAGT  
GAGGAGGTGCGAGCAGACTTGGAGCAGGTTGAGGTGCTCCAGAAGAAAGTTTATGACTTCCAGAAGGACCTGAAG  
GCCAATGAGTCACGGTTGAAGGACATTAACAAGGTAGCTGAAGACCTGGAGTCTGAAGGTCTTATGGCAGAGGAG

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**FIGURE 1281B**

GTGCAGGCTGTGCAACAACAGGAAGTGTATGGCATGATGCCAGGGATGAAACTGATTCCAAGACAGCCTCCCCG  
TGGAAGTCTGCTCGTCTGATGGTTACACCGTGGCCACCTTTAATTCCATCAAGGAGCTGAATGAGCGCTGGCGG  
TCCCTACAGCAGCTGGCCGAGGAACGGAGCCAGCTCTTGGGCAGCGCCCATGAAGTACAGAGGTTCCACAGAGAT  
GCTGATGAAACCAAGAATGGATTGAAGAGAAGAATCAAGCTCTAAACACAGACAATTATGGACATGATCTCGCC  
AGTGTCCAGGCCCTGCAACGCAAGCATGAGGGCTTCGAGAGGGACCTTGCGGCTCTCGGTGACAAGGTAACTCC  
CTTGGTGAACAGCAGAGCGCCTGACCCAGTCCCATCCCGAGTCAGCAGAAGACCTGCAGGAAAAGTGCACAGAG  
TTAAACCAGGCCCTGGAGCAGCCTGGGGAAACGTGCAGATCAGCGCAAGGCAAAGTTGGGTGACTCCCACGACCTG  
CAGCGCTTCCTTAGCGATTTCCGGGACCTCATGTCTTGATCAATGGAATACGGGGGTTGGTGTCTCAGATGAG  
CTAGCCAAGGATGTCACCGAGCTGAGGCATTGCTGGAGCGACACCAGGAACACCGGACAGAAATCGATGCCAGG  
GCTGGCACTTTCCAGGCATTTGAGCAGTTTGACAGCAGCTGTTGGCTCACGGACACTATGCCAGCCCTGAGATC  
AAGCAGAACTTTGATATTCTTGACCAGGAGCGTGCAGACCTGGAGAAGGCCTGGGTTACAGCGCAGGATGATGCTG  
GATCAGTGCCTTGAAGTGCAGCTGTTCCATCGGGACTGTGAGCAAGCTGAGAAGTGGATGGCTGCCCGGGAGGCC  
TTCTTGAATACCGAAGACAAAGGAGACTCACTGGACAGCGTAGAGGCTCTGATCAAAAAACATGAAGACTTTGAC  
AAAGCGATTAACGTCCAGGAAGAGAAGATTGCTGCTCTGCAGGCCTTTGCCGACCAGCTCATCGCTGCCGGCCAT  
TATGCCAAGGGAGACATTTCTAGCCGGCGCAATGAGGTCCTGGACAGGTGGCGACGTCTGAAAGCCAGATGATT  
GAGAAAAGGTCAAAGCTAGGAGAATCTCAAACCTCCAACAGTTCAGCCGGGATGTGGATGAGATTGAGGCTTGG  
ATCAGTGAAAAATTGCAAACAGCGAGTGATGAGTCGTACAAGGATCCCACCAACATCCAGAGCAAGCACCAGAAG  
CACCAGGCTTTTGAAGCAGAGCTGCATGCCAACGCTGACCGGATCCGTGGGGTTATCGACATGGGCAACTCCCTC  
ATTGAACGTGGAGCCTGTGCCGGCAATGAGGATGCTGTCAAGGCCCGCCTGGCTGCCTTAGCTGACCAGTGGCAA  
TTCTTGGTGCAAAAGTCAGCGGAAAAGAGCCAGAACTGAAAGAAGCCAACAAGCAGCAGAACTTCAACACAGGG  
ATCAAGGACATTGCATTCTGGCTGTCTGAGGTGGAGGCCCTGCTGGCATCCGAAGATTATGGCAAAGACCTGGCT  
TCTGTGAACAACCTGCTGAAAAAGCATCAACTGCTGGAAGCAGATATATCTGCCCATGAGGATCGCCTGAAGGAC  
CTGAACAGCCAGGCAGACAGCCTGATGACCAGCAGTGCCTTCGACACCTCCCAAGTAAAGGACAAGAGGGACACC  
ATCAACGGGCGCTTCCAGAAGATCAAGAGCATGGCGGCCCTCCCGCGAGCCAAGCTGAATGAATCCCATCGCCTG  
CACCAGTTCTTCCGGGACATGGATGACGAGGAGTCTTGATCAAGGAGAAGAAGCTGCTGGTGGGCTCAGAGGAC  
TACGGCCGGGACCTAACTGGCGTGCAGAACCTGAGGAAGAAGCACAAAGCGCTGGAAGCAGAACTGGCTGCGCAT  
GAGCCGGCTATTTCAGGGTGTCTTGACACTGGCAAGAAGCTGTCCGATGACAACACCATCGGGAAAGAGGAGATC  
CAGCAGCGGCTGGCGCAGTTTGTGGAGCACTGGAAAGAGCTGAAGCAGCTGGCAGCTGCCCGGGGTGAGCGGCTG  
GAAGAGTCCTTGGAATATCAGCAGTTTGTAGCCAATGTGGAAGAGGAAGAAGCCTGGATCAATGAGAAAATGACC  
CTGGTGGCCAGCGAAGATTATGGCGACACTCTTGCCGCCATCCAGGGCTTACTGAAGAAACATGAAGCTTTTGAG  
ACAGCCTTCAACGTCCACAAGGATCGCGTGAATGATGTCTGCACCAATGGACAAGACCTCATTAGAAGAACAAT  
CACCATGAGGAGAACATCTCTTCAAAGATGAAGGGCCTGAACGGGAAAGTGTGAGACCTGGAGAAAGCTGCAGCC  
CAGAGAAAGGCGAACGTGGATGAGAACTCGGCCTTCTTTCAGTTCAACTGGAAGCGGACGTGGTGGAGTCTTGG  
ATCGGTGAAAAGGAGAACAGCTTGAAGACAGATGATTATGGCCGAGACCTGTCTTCTGTGCAGACGCTCCTCACC  
AAACAGGAAACTTTTGACGCTGGGCTGCAGGCCTTCCAGCAGGAAGGCATTGCCAACATCACTGCCCTCAAAGAT  
CAGCTTCTCGCCGCCAAACACGTTTCAGTCCAAGGCCATCGAGGCCCCGCACGCCTCCCTCATGAAGAGGTGGAGC  
CAGCTTCTGGCCAACTCAGCCGCCCGCAAGAAGAAGCTTCTGGAGGCTCAGAGTCACTTCCGCAAGGTGGAGGAC  
CTCTTCTGACCTTCGCCAAAAGGCTTCTGCCTTCAACAGCTGGTTTGAAAATGCAGAGGAGGACTTAACAGAC  
CCCGTGCCTGCAACTCCTTGGAAGAAATCAAAGCTTTGCGCGAGGCCACGACGCCTTCCGCTCCTCCCTCAGC  
TCTGCCCAGGCTGACTTCAACCAGCTGGCCGAGCTGGACCGCCAGATCAAGAGCTTCCGCGTAGCCTCCAACCCC  
TACACCTGGTTTACCATGGAGGCCCTGGAGGAGACCTGGAGGAACCTACAGAAAATCATCAAGGAGAGGGAGCTG  
GAGCTGCAGAAGGAACAGCGGCGGCAGGAGGAGAACGACAAGCTGCGCCAGGAGTTTGCCAGCACGCCAACGCC  
TTCCACCAGTGGATCCAAGAGACCAGGACATACCTCCTCGATGGGTCTGTATGGTGGAAAGAGTCGGGGACCCCTC  
GAATCCAGCTTGAAGCTACCAAACGCAAGCACCAGGAAATCCGAGCCATGAGAAGTCAGCTCAAAAAGATCGAG  
GACCTGGGGGGCCGCATGGAGGAGGCCCTCATCCTGGACAACAAGTACACGGAGCACAGCACCCTGGGCCTCGCC  
CAGCAGTGGGACCAGCTGGACCAGCTGGGCATGCGCATGCAGCACAACCTGGAGCAGCAGATCCAGGCCAGGAAC  
ACAACAGGTGTGACTGAGGAGGCCCTCAAAGAATTGAGCATGATGTTTAAACACTTTGACAAGGACAAGTCTGGC  
AGGCTGAACCATCAGGATGGCAAATCTTGCTGCGCTCCCTGGGCTATGACCTGCCCATGGTGGAGGAAGGGGAA

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**FIGURE 1281C**

CCTGACCCTGAGTTTCGAGGCAATCCTGGACACGGTGGATCCGAACAGAGATGGCCATGTCTCCTTGCAAGAATAC  
ATGGCTTTCATGATCAGCCGCGAAACTGAGAACGTCAAGTCCAGCGAGGAGATTGAGAGCGCCTTCCGGGCCCCTC  
AGCTCAGAGGGAAAGCCTTACGTGACCAAGGAGGAGCTCTACCAGAACCTGACCCGGGAACAAGCCGACTACTGC  
GTCTCCCACATGAAGCCCATCGTGGACGGCAAGGGCCGCGAGCTCCCCACCGCGTTGCGACTACGTGGAGTTCACC  
CGCTCGCTTTTCGTGAAGTCTGAGCCACTCCCTGGGTCACCCACCCCTCGCTGCTTGCCCTGCGTCGCCTTGCTGCA  
TGTCCGCTCCTCTGTGTGCTCTCACTTTCCACTGTAACCTTAAGCCTGCTTAGCTTGGAATAAGACTTAGGAGAA  
AATGGTGCTTCACTAACCCGCTTCCGGTCCAGTCACAATCATCATGTCACTGTGGGACCCAGATCTGTGTCTTGA  
AGCAGCTGCCCTCATTCCGACTTCAGAAAATCGAAGCAGCTGGCGCCTCCCCTTCGGAATTC

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**FIGURE 1282**

MDPSGVKVLETAEDIQERRQQVLDRYHRFKELSTLRRQKLED SYRFQFFQRDAEELEKWIQEKLIQIASDENYKDP  
TNLQGKLQKHQAFAEAEVQANS GAIVKLD ETGNLMISEGHFAS ETIRTRLMELHRQWELLLEKMKREKGIKLLQ AQN  
LVQYLRECEVDMDWINDKEAIVTSEELGQDLEHVEVLQKKFEEFQTDMAAHEERVNEVNQFAAKLIQE QHP EEEEL  
IKTKQDEVNAAWQRLKGLALQRQ GKLF GAAEVQRFN RDVDETISWIK EKEQLMASDDFGRDLASVQALLRKHEGL  
ERDLAALEDKV KALCAEADRLQQSHPLSATQIQVKREELITNWEQIRTLAAERHARLND SYRLQRFLADFRDLTS  
WVTEMKALINADELASDVAGAEALLDRHQEHKGEIDAHEDSFKSADESGQALLAAGHYASDEVREKLT VLVSEERA  
ALLELWELRRQQYEQCMDLQLFYRDTEQVDNWMSKQEAFLNEDLGDFLDSVEALLKKHEDFEKSLSAQEEKITA  
LDEFATKLIQNNHYAMEDVATRRDALLSRNALHERAMRRRAQLADSFHLQQFFRDSDELKSWVNEKMK TATDEA  
YKDPSNLQGKVQKHQAFAEEL SANQSRIDALEKAGQKLIDVNHYAKDEVAARMNEVISLWKKLLEATELKG ICLR  
EANQQQQFN RNVEDIELWLYEVEGHLASDDYGKDLTNVQN LQKKHALLEADVAAHQDRIDGVTIQARQFQDAGHF  
DAENIKKKQEALVARYEALKEPMVARKQKLADSLRLQQLFRDVEDEETWIREKEPIAASNRGKDLIGVQNLLKK  
HQALQAEIAGHEPRIKAVTQKGNAMVEEGHFAAEDVKAKLHELNQKWEALKAKASQRRQDLED SLQAQQYFADAN  
EAESWMREKEPIVGSTDYGKDEDSAEALLKKHEALMSDLSAYGSSI QALREQAQSCRQQVAPTDD ETGKELVLAL  
YDYQEKSPREVTMKG DILTLLNSTNKDWWKVEVNDRQGFVPAAYVKKLDPAQSASREN LLEEQGSIALRQE QID  
NQTRITKEAGSVSLRMKQVEELYHSLLELGEKRKGMLEKSCKKFMLFREANELQQWINEKEAALTSEEVGADLEQ  
VEVLQKKFDDFQKDLKANESRLKDINKVAEDLESEGLMAEEVQAVQQQEVYGMMPRDETDSKTASPWKSARLMVH  
TVATFNSIKELNERWRS LQQLAEERSQLLGS AHEVQRFHRDADETKEWIEEKNQALNTDNYGHDLASVQALQRKH  
EGFERDLAALGDKVNSLGETAERLTQSHPE SAEDLQEKCTELNQAWSSLGKRADQRKAKLGDSHDLQRFLSDFRD  
LMSWINGIRGLVSSDELAKDVTGAEALLERHQEHRTEIDARAGTFQAFEQFGQQLLAHGHYASPEIKQKLDILDQ  
ERADLEKAWVQRRMMLDQCLELQLFHRDCEQAENWMAAREAF LNTEDKGD SLDSVEALIKKHEDFDKAINVQEEK  
IAALQAFADQLIAAGHYAKGDISSRRNEVLDRWRRRLKAQMIEKR SKLGESQTLQQFSRDVDEIEAWISEKLQTAS  
DESYKDPTNIQSKHQKHQAFAEELHANADRIRGVIDMGNSLIERGACAGNEDAVKARLAALADQWQFLVQKSAEK  
SQKLKEANKQQNFNTGIKDIAFWLSEVEALLASEDYGKDLASVNLLKKHQLLEADISAHEDRLKD LNSQADSLM  
TSSAFDTSQVKDKRDTINGRFQKIKSMAASRRAKLNESHRLHQFFRDM DDEESWIK EKKLLVGS EGYGRDLTG VQ  
NLRKKHKRLEAEELAAHEPAIQGVLDTGKKLSDDNTIGKEEIQQLAQFVEHWKELKQLAAARGQRLEESLEYQQF  
VANVEEEEAWINEKMTLVASEDYGDTLAAIQGLLKKHEAFETAFTVHKDRVNDVCTNGQDLIKKNNHHEENISSK  
MKGLNGKVS DLEKAAAQRKANVDENSAFLQFNWKADV VESWIGEKENSLK

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**FIGURE 1283A**

GCCGTGGCTCCGGTAGCAGCAAGTTCGAACCCCGCTCCCGCTCCGCTTCGGTTCTCGCTCCTTCGGCCCTTGGGC  
CTCCAAACACCAGTCCCCGGCAGCTCGTTGCGCATTGCGCTCTCCCCGCCACCAGGATGCCGGTAACCGAGAAGG  
ATCTAGCTGAGGACGCGCCTTGGAAGAAGATCCAGCAGAACACGTTACACGCTGGTGCAACGAGCACCTCAAGT  
GCGTGAACAAACGCATCGGCAACCTGCAGACCGACCTGAGCGACGGGCTGCGGCTCATCGCGCTGCTCGAGGTGC  
TCAGCCAGAAGCGCATGTACCGCAAGTACCATCAGCGGCCACCTTTCCGCCAGATGCAGCTCGAGAATGTGTCCG  
TGGCGCTCGAGTTCCTGGACCGTGAGAGCATCAAGCTCGTGTCCATCGATAGCAAAGCCATTGTGGATGGGAACC  
TGAAGCTCATCTTGGGTCTGGTGTGGACGCTGATCCTCCACTACTCCATCTCCATGCCCCGTGTGGGAGGATGAAG  
GGGATGATGATGCCAAGAAGCAGACGCCAAAGCAGAGGCTGCTGGGGTGGATTGAGAACAAGATCCCCTACTTGC  
CCATCACCAACTTTAACCAGAACTGGCAAGACGGCAAAGCCCTGGGAGCCCTGGTAGACAGCTGTGCTCCAGGTC  
TGTGCCCAGACTGGGAATCCTGGGACCCGCAGAAGCCTGTGGATAATGCACGAGAAGCCATGCAGCAGGCAGATG  
ACTGGCTGGGTGTCCACAGGTCATCACTCCTGAAGAAATCATTACCCGGATGTGGACGAGCACTCAGTTATGA  
CTTACCTGTCCCAGTTCCCCAAAGCCAAGCTCAAGCCGGGGGCTCCTCTCAAACCCAACTCAACCCGAAGAAAG  
CCAGGGCCTATGGCAGAGGAATCGAGCCCACTGGAAACATGGTGAAGCAGCCAGCCAAGTTCACTGTGGACACCA  
TCAGCGCCGGGCAAGGAGACGTGATGGTGTGTTGTGAGGACCCAGAAGGGAACAAAGAGGAGGCACAAGTGACCC  
CTGACAGCGACAAGAACAAGACATACTCTGTGGAGTATCTGCCAAAGGTCACCGGGCTACACAAAGTCACAGTCC  
TCTTTGCAGGACAGCACATCTCCAAGAGCCCATTGGAAGTGAGTGTGACAAGGCCCAGGGAGATGCCAGTAAAG  
TCACTGCAAAAGGTCCAGGGTTGGAAGCTGTAGGGAACATCGCCAATAAGCCACCTACTTTGACATCTATACGG  
CAGGAGCTGGTGTGGGTGACATTGGTGTGGAGGTGGAAGATCCCCAGGGGAAGAACACCGTGGAGTTGCTCGTGG  
AAGACAAAGGAAACCAGGTGTATCGATGTGTGTACAAACCCATGCAGCCTGGCCCTCACGTGGTCAAGATCTTCT  
TTGCTGGGGACACTATTCTAAGAGTCCCTTCGTTGTGAGGTTGGGGAAGCCTGCAATCCAAATGCCTGCCGGG  
CCAGTGGCCGAGGCCTACAACCCAAAGGCGTCCGTATCCGGGAGACCACAGATTTCAAGGTTGACACCAAAGCTG  
CAGGAAGTGGGGAGCTCGGGGTAACCATGAAGGGTCTTAAGGGTCTGGAGGAGCTGGTGAAGCAGAAAGACTTTC  
TGGATGGGGTCTACGCATTGAGTATTACCCAGCACCCCGGGGAGATACAGCATTGCCATCACATGGGGGGGAC  
ACCACATTCCAAAGAGCCCCCTTTGAAGTTCAAGTTGGCCCTGAAGCGGGTATGCAGAAAGTCCGTGCTTGGGGCC  
CTGGGCTCCATGGTGGGATTGTGCGGCGGTACGCGGACTTCGTGGTAGAATCCATTGGCTCTGAAGTGGGGTCTC  
TGGGGTTTGCCATTGAAGGCCCTCTCAGGCAAAGATTGAGTACAACGACCAGAATGATGGATCGTGTGATGTCA  
AATACTGGCCCAAGGAGCCTGGCGAATATGCTGTTACATCATGTGTGACGACGAAGACATCAAGGACAGCCCGT  
ACATGGCCTTCATCCACCCAGCCACGGGAGGCTACAACCTGATCTGGTTCGAGCATACGGGCCAGGTTTGGAGA  
AATCTGGATGCATTGTCAACAACCTGGCCGAGTTCACTGTGGATCCTAAGGATGCTGGAAAAGCTCCCTTAAAGA  
TATTTGCTCAGGATGGGGAAGGCCAACGCATTGACATCCAGATGAAGAACCGGATGGACGGCACATATGCATGCT  
CATACACCCCGGTGAAGGCCATCAAGCACACCATGCTGTGGTCTGGGGAGGCGTGAACATCCCGCACAGCCCT  
ACAGGGTCAACATCGGGCAAGGTAGCCATCCTCAGAAGGTCAAAGTGTTTGGGCCAGGTGTGGAGAGAAGTGGTC  
TGAAGGCAAAATGAACCTACACACTTCACGGTGGACTGTACTGAGGCTGGGGAAGGTGATGTGAGTGTGGCATT  
AGTGTGATGCCCGGTGTTAAGTGAAGATGAGGAAGACGTGGATTTTGACATTATTACAAATGCCAATGATACGT  
TCACAGTCAAATATGTGCCTCCTGCTGCTGGGCGATACACTATCAAAGTTCTCTTTGCATCTCAGGAAATCCCCG  
CCAGCCCTTTCAGAGTCAAAGTTGACCCTTCCCACGATGCCAGCAAAGTGAAGGCAGAAGGCCCAGGGCTCAGCA  
AAGCAGGTGTGGAAAATGGGAAACCGACCCACTTCACTGTCTACACCAAGGGGGCTGGGAAAGCCCCGCTCAACG  
TGCAGTTCAACAGCCCTCTTCCTGGCGATGCAGTGAAGGATTTGGATATCATCGATAATTATGACTACTCTCACA  
CGGTTAAATATACACCCACCCAACAGGGCAACATGCAGGTTCTGGTGACTTACGGTGGCGATCCCATCCCTAAAA  
GCCCTTTCCTGTGGGTGTGCTGCACCGCTGGATCTGAGCAAAGATAAACTCAATGGGCTGGAAAACAGGGTGG  
AAGTTGGGAAGGATCAGGAGTTCACCGTTGATACCAGGGGGCAGGAGGCCAGGGGAAGCTGGACGTGACAATCC  
TCAGCCCCCTCTCGGAAGGTCGTGCCATGCCTAGTGACACCTGTGACAGGCCGGGAGAACAGCACGGCCAAGTTCA  
TCCCTCGGGAGGAGGGGCTGTATGCTGTAGACGTGACCTACGATGGACACCCTGTGCCCCGGGAGCCCCCTACACAG  
TGGAGGCCCTCGCTGCCACCAGATCCAGCAAGGTGAAGGCCACGGTCCCGGCCTCGAAGGTGGTCTCGTGGGCA  
AGCCTGCCGAGTTCACCATCGATACCAAAGGAGCTGGTACTGGAGGTCTGGGCTTAACGGTGAAGGTCCGTGCG  
AGGCCAAAATCGAGTGCTCCGACAATGGTGTGAGGACCTGCTCCGTCTCTTACCTTCCCACAAAACCCGGGGAGT  
ACTTCGTCAACATCCTCTTTGAAGAAGTCCACATACCTGGGTCTCCCTTCAAAGCTGACATTGAAATGCCCTTTG  
ACCCCTCTAAAGTCGTGGCATCGGGGCCAGGTCTCGAGCACGGGAAGGTGGGTGAAGCTGGCCTCCTTAGCGTCA

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**FIGURE 1283B**

ACTGCTCGGAAGCGGGACCGGGGGCCCTGGGCCTGGAAGCTGTCTCGGACTCGGGAACAAAAGCCGAAGTCAGTA  
TTCAGAACAAACAAAGATGGCACCTACGCGGTGACCTACGTGCCCCCTGACGGCCGGCATGTACACGTTGACCATGA  
AGTATGGTGGCGAACTCGTGCCACACTTCCCCGCCCCGGGTCAAGGTGGAGCCCCGCGTGGACACCAGCAGGATCA  
AAGTCTTTGGACCAGGAATAGAAGGGAAAGATGTGTTCCGGGAAGCTACCACCGACTTTACAGTTGACTCTCGGC  
CGCTGACCCAGGTTGGGGGTGACCACATCAAGGCCACATTGCCAACCCCTCAGGGGCCTCCACCGAGTGCTTTG  
TCACAGACAATGCGGATGGGACCTACCAGGTGGAATACACACCCTTTGAGAAAGGTCTCCATGTAGTGAGGTGA  
CATATGATGACGTGCCTATCCCAAACAGTCCCTTCAAGGTGGCTGTCACTGAAGGCTGCCAGCCATCTAGGGTGC  
AAGCCCAAGGACCTGGATTGAAAGAGGCCTTTACCAACAAGCCCAATGTCTTCACCGTGTTACCAGAGGCGCAG  
GAATTGGTGGGCTTGGCATAACTGTTGAGGGACCATCAGAGTGAAGATAAATTGCAGAGACAACAAGGATGGCA  
GCTGCAGTGCTGAGTACATTCTTTTCGCGCCGGGGGATTACGATGTTAATATCACATATGGAGGAGCCACATCC  
CTGGCAGCCCCCTTCAGGGTTCTGTGAAGGATGTTGTGGACCCAGCAAGGTCAAGATTGCCGGCCCCGGGCTGG  
GCTCAGGCGTCCGAGCCCGTGTCTGCAGTCCCTTACGGTGGACAGCAGCAAGGCTGGCCTGGCTCCGCTGGAAG  
TGAGGGTTCTGGGCCCACGAGGCTTGGTGGAGCCAGTGAACATGGTGGACAATGGAGATGGCACACACACAGTAA  
CCTACACCCCATCTCAGGAGGGACCTTACATGGTCTCAGTTAAATATGCTGATGAAGAGATTCTCTGCAGTCCCT  
TCAAGGTCAAGGTCTCTCCACATATGATGCCAGCAAAGTGACTGCCAGTGGCCCCGGCCTTAGTTCTATGGTG  
TGCCTGCCAGTCTACCTGTGGACTTTGCAATTGATGCCCGAGATGCCGGGGAAGGCCTGCTTGCTGTTCAAATAA  
CGGACCAAGAAGGAAAACCCAAAAGAGCCATTGTCCATGACAATAAAGATGGCACGTATGCTGTACCTACATCC  
CCGACAAGACTGGGCGCTATATGATTGGAGTCACTACGGGGGTGACGACATCCCACTTTCTCCTTATCGCATCC  
GAGCCACACAGACGGGTGATGCCAGCAAGTGCCTGGCCACGGGTCTGGAATCGCCTCCACTGTGAAAACCTGGCG  
AAGAAGTAGGCTTTGTGGTTGATGCCAAGACTGCCGGGAAGGGTAAAGTGACCTGCACGGTTCTGACCCAGATG  
GCACTGAGGCCGAGGCCGATGTCATTGAGAATGAAGATGGAACCTATGACATCTTCTACACAGCTGCCAAGCCGG  
GCACATATGTGATCTATGTGCGCTTCGGTGGTGTGATATTCTAACAGCCCCCTTCACTGTGATGGCCACAGATG  
GGGAAGTCACAGCCGTGGAGGAGGCACCGGTAAATGCATGTCCCCCTGGATTGAGGCCCTGGGTGACCGAAGAGG  
CCTATGTCCAGTGAGTGACATGAACGGCCTGGGATTTAAGCCTTTTGACCTGGTCATTCCGTTTGCTGTAGGA  
AAGGAGAAATCACTGGAGAGGTCCACATGCCTTCTGGGAAGACAGCCACACCTGAGATTGTGGACAACAAGGACG  
GCACGGTCACTGTTAGATATGCCCCACTGAGGTGCGGCTCCATGAGATGCACATCAAATACATGGGCAGCCACA  
TCCCTGAGAGCCCACTCCAGTTCTACGTGAACTACCCCAACAGTGGAAGTGTTTCTGCATACGGTCCAGGCCTCG  
TGTATGGAGTGGCCAACAAAACCTGCCACCTTACCATCGTCACAGAGGATGCAGGAGAAGGTGGTCTGGACTTGG  
CTATTGAGGGCCCCCTCAAAAAGCAGAAATCAGCTGCATTGACAATAAAGATGGGACATGCACAGTGACCTACCTGC  
CGACTCTGCCAGGCGACTACAGCATTCTGGTCAAGTACAATGACAAGCACATCCCTGGCAGCCCCCTTACAGCCA  
AGATCACAGATGACAGCAGGCGGTGCTCCAGGTGAAGTTGGGCTCAGCCGCTGACTTCTGCTCGACATCAGTG  
AGACTGACCTCAGCAGCCTGACGCGCCAGCATTAAAGCCCCATCTGGCCGAGACGAGCCCTGTCTCTGAAGAGGC  
TGCCCAACAACCACATTGGCATCTCCTTCATCCCCCGGAAGTGGGCGAACATCTGGTCAGCATCAAGAAAAATG  
GCAACCATGTGGCCAACAGCCCCGTGTCTATCATGGTGGTCCAGTCGGAGATTGGTGACGCCCGCCGAGCCAAAG  
TCTATGGCCGCGGCTGTGAGAAGGCCGACTTTCGAGATGTCTGACTTCATCGTGGACACAAGGGATGCAGGTT  
ATGGTGGCATATCCTTGGCGGTGGAAGGCCCCAGCAAAGTGGACATCCAGACGGAGGACCTGGAAGATGGCACCT  
GCAAAGTCTCCTACTTCCCTACCGTGCCTGGGGTTTATATCGTCTCCACCAAATTCGCTGACGAGCACGTGCCTG  
GGAGCCCATTTACCGTGAAGATCAGTGGGGAGGGAAGAGTCAAAGAGAGCATCACCCGCACCAGTCGGGCCCCGT  
CCGTGGCCACTGTGCGGAGCATTGTGACCTGAACCTGAAAATCCAGAAATCAACAGCAGTGATATGTGCGCCC  
ACGTACACAGCCCCCTCTGGCCGTGTGACTGAGGCAGAGATTGTGCCCATGGGGAAGAACTCACACTGCGTCCGGT  
TTGTGCCCCAGGAGATGGGCGTGCACACGGTCAGCGTCAAGTACCGTGGGCAGCACGTCACCGGCAGCCCCCTTCC  
AGTTCACCGTGGGGCCACTTGGTGAAGGAGGCGCCACAAGGTGCGGGCAGGAGGCCCTGGCCTGGAGAGAGGAG  
AAGCGGGAGTCCAGCTGAGTTCAGCATTGAGACCCGGAAGCAGGCGCTGGAGGCCCTCTCCATCGCTGTTGAGG  
GCCCCAGTAAGGCCGAGATTACATTGATGACCATAAAAATGGGTGCTGCGGTGTATCTTATATTGCCAAGAGC  
CTGGTAACTACGAGGTGTCCATCAAGTTCAATGATGAGCACATCCCGGAAAGCCCCCTACCTGGTGCCGGTCATCG  
CACCCTCCGACGACGCCCGCCGCTCACTGTTATGAGCCTTCAGGAATCGGGATTAAAGTTAACCAGCCAGCAT  
CCTTTGCTATAAGGTTGAATGGCGCAAAAGGCAAGATTGATGCAAAGGTGCACAGCCCCCTCTGGAGCCGTGGAGG  
AGTGCCACGTGTCTGAGCTGGAGCCAGATAAGTATGCTGTTGCTTCATCCCTCATGAGAATGGTGTCCACACCA



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**FIGURE 1283C**

TCGATGTCAAGTTCAATGGGAGCCACGTGGTTGGAAGCCCCTTCAAAGTGC GCGTTGGGGAGCCTGGACAAGCGG  
GGAACCCCTGCCCTGGTGTCCGCCTATGGCACGGGACTCGAAGGGGGCACCACAGGTATCCAGTCGGAATTCTTTA  
TTAACACCACCCGAGCAGGTCCAGGGACATTATCCGTCACCATCGAAGGCCCATCCAAGGTTAAAAATGGATTGCC  
AGGAAACACCTGAAGGGTACAAAGTCATGTACACCCCCATGGCTCCTGGTAACTACCTGATCAGTGTCAAATACG  
GTGGGCCCCAACCACATCGTGGGCAGTCCCTTCAAGGCCAAGGTGACAGGCCAGCGTCTAGTTAGCCCTGGCTCAG  
CCAACGAGACCTCATCCATCCTGGTGGAGTCAGTGACCAGGTCGTCTACAGAGACCTGCTATAGCGCCATTCCCA  
AGGCATCCTCGGACGCCAGCAAGGTGACCTCTAAGGGGGCAGGGCTCTCAAAGGCCCTTGTGGGCCAGAAAGATT  
CCTTCCTGGTGGACTGCAGCAAAGCTGGCTCCAACATGCTGCTGATCGGGGTCCATGGGCCCCACCACCCCTGCG  
AGGAGGTCTCCATGAAGCATGTAGGCAACCAGCAATACAACGTCACATACGTCGTCAGGAGAGGGGCGATTATG  
TGCTGGCTGTGAAGTGGGGGGAGGAACACATCCCTGGCAGCCCTTTTCATGTCACAGTGCCTTAAAAACAGTTTTC  
TCAAATCCTGGAGAGAGTTCTTGTGGTTGCTTTTGTGCTTGTGTTGTAATTCATTTTATACAAAGCCCTCCAGCC  
TGTTTGTGGGGCTGAAACCCCATCCCTAAAAATATTGCTGTTGTAAAATGCCTTCAGAAATAAGTCCTAGACTGGA  
CTCTTGAGGGACATATTGGAGAATCTTAAGAAATGCAAGCTTGTTTCAGGGGGCTGAGAAGATCCTGAGTACACTA  
GGTGCAAACCAGAACTCTTGGTGGAAACAGACCAGCCACTGCAGCAGACAGACCAGGAACACAATGAGACTGACAT  
TTCAAAAAAACAAAACCTGGCTAGCCTGAGCTGCTGGTTCACTCTTCAGCATTTATGAAACAAGGCTAGGGGAAGA  
TGGGCAGAGAAAAAGGGGACACCTAGTTTGGTTGTCATTTGGCAAAGGAGATGACTTAAAAATCCGCTTAATCTCT  
TCCAGTGTCCGTGTTAATGTATTTGGCTATTAGATCACTAGCACTGCTTTACCGCTCCTCATCGCCAACACCCCC  
ATGCTCTGTGGCCTTCTTACACTTCTCAGAGGGCAGAGTGGCAGCCGGGCACCCTACAGAAACTCAGAGGGGCAGA  
GTGGCAGCCAGGCCACATGTCTCTCAAGTACCTGTCCCCTCGCTCTGGTGATTATTTCTTGAGAAATCACCACA  
CGAGACCATCCCGGCAGTCATGGTTTTGCTTTAGTTTTCCAAGTCCGTTTCAGTCCCTTCCTTGGTCTGAAGAAA  
TTCTGCAGTGGCGAGCAGTTTTCCCACTTGCCAAAAGATCCCTTTTAAACCAACACTAGCCCTTGTTTTTAACACACG  
CTCCAGCCCTTCATCAGCCTGGGCAGTCTTACCAAAAATGTTTAAAGTGATCTCAGAGGGGGCCCATGGATTAACGC  
CCTCATCCCAAGGTCCGTCCCATGACATAACACTCCACACCCGCCCCAGCCAACCTTCATGGGTCACTTTTTCTGG  
AAAAATAATGATCTGTACAGACAGGACAGAATGAAACTCCTGCGGCTCTTTGGCCTGAAAGTTGGGAATGGTTGGG  
GGAGAGAAGGGCAGCAGCTTATTGGTGGTCTTTTCACCATTGGCAGAAACAGTGAGAGCTGTGTGGTGCAGAAAT  
CCAGAAATGAGGTGTAGGGAATTTTGCCTGCCTTCCTGCAGACCTGAGCTGGCTTTGGAATGAGGTTAAAGTGT  
AGGGACGTTGCCTGAGCCCAAATGTGTAGTGTGGTCTGGGCAGGCAGACCTTTAGGTTTTGCTGCTTAGTCCTGA  
GGAAGTGGCCACTCTTGTGGCAGGTGTAGTATCTGGGGCGAGTGTGTTGGGGGTAAAAGCCCACCCTACAGAAAGTG  
GAACAGCCCGGACCTGATGTGAAAGGACCACGGGTGTTGTAAGCTGGGACCGGAACCAAACTGGAATCAAACGCG  
ACTGTAAATTGTATCTTATAACTTATTAAATAAAACATTGCTCCGTAAAAA

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**FIGURE 1284**

MPVTEKDLAEDAPWKKIQONTFTRWCNEHLKCVNKRIGNLQTDLSDGRLRLIALLEVLVSQKRMRYKHQRPTFROM  
QLENVSVALEFLDRESIKLVSIDSKAIVDGNLKLILGLVWTLILHYSISMPVWEDEGDDDAKKQTPKQRLLGWIO  
NKIPYLPITNFNQNWQDGKALGALVDSCAPGLCPDWESWDPQKPVDNAREAMQQADDWLGVQPQVITPEEIIHPDV  
DEHSVMTYLSQFPKAKLKPGAPLKPKLNPKKARAYGRGIEPTGNMVKQPAKFTVDTISAGQGDMVMFVEDPEGNK  
EEAQVTPDSDKNKTYSVEYLPKVTGLHKVTVLFAQGHISKSPFEVSVDKAQGDASKVTAKGPGLEAVGNIAANKPT  
YFDIYTAGAGVGDIGVEVEDPQGKNTVELLVEDKGNQVYRCVYKPMQPGPHVVKIFFAGDTIPKSPFVVQVGEAC  
NPNACRASGRGLQPKGVRIRETDFKVDTKAAGSGELGVTMKGPKGLEELVKQKDFLDGVYAFEYYPSTPGRYSI  
AITWGGHHIPKSPFEVQVGPEAGMQKVRWGPGLHGGIVGRSADFVVEISIGSEVGSGLGFAIEGFSQAKIEYNDQN  
DGSCDVKYWPKEPGEYAVHIMCDEDEIKDSPYMAFIHPATGGYNPDLVRAYGPGLEKSGCIVNNLAEFTVDPKDA  
GKAPLKIFAQDGEGQRIDIQMKNRMDGTIYACSYTFVKAIKHTIAVWGGVNIPHSPYRVNIGQGSHPQKVVFPG  
GVERSGLKANEPHTFTVDCTEAGEGDVSVGIKCDARVLSDEEEDVDFDIIHNANDTFTVKYVPPAAGRYTIKVL  
ASQEI PASPFVRKVDPSHDASKVKAEGPGLSKAGVENGKPTHTFTVYTKGAGKAPLNVQFNSPLPGDAVKDLIDI  
NYDYSHTVKYTPQTQGNMQVLVTYGGDPIPKSPFTVGVAAPLDLSKIKLNGLENRVEVGKDQEF TVDTRGAGGQG  
KLDVTILSPSRKVVPCLVTPVTGRENSTAKFIPREEGLYAVDVTYDGHVPVPGSPYTVEASLPDP SKVKAHGPGL  
EGGLVGKPAEFTIDTKGAGTGGLGLTVEGPCEAKIECSDNGDGTCSVSYLPTKPGEYFVNILFEEVHIPGSPFKA  
DIEMPFDP SKVVASGPGLEHGKVGEAGLLSVNCSEAGPGALGLEAVSDSGTKAEVSIQNNKDGTYAVTYVPLTAG  
MYTLTMKYGGELVPHFPARVKVEPAVDTSRIKVFGPGIEGKDVFREATTDFTVDSRPLTQVGGDHIAHANPSG  
ASTECFVTDNADGTIYQVEYTPFEKGLHVVEVTYDDVPIPNSPFKVAVTEGCQPSRVQAQGPGLKEAFTNKP NVFT  
VVTRGAGIGGLGITVEGPSESKINCRDNKDGSCSAEYIPFAPGDYDVNITYGGAHIPGSPFRVPVKDVVDPSKV  
IAGPGLGSGVRARVLQSFTVDSSKAGLAPLEVRVLGPRGLVEPVNMVDNGDGHTVTVYTPSQEGPYMVSVKYADE  
EIPRSPFKVKVLPTYDASKVTASGPGLSSYGVPASLPVDFDARDAGEGLLAVQITDQEGKPKRAIVHDNKDGT  
YAVTYIPDKTGRYMIGVTYGGDDIPLSPYRIRATQTGDASKCLATGPGIASTVKTGEEVGFVVDATAKGGKVT  
TVLTPDGTAEADVIENEDGTIDIFYTAAKPGTYVIYVRFGGVDIPNSPFTVMATDGEVTAVEEAPVNACPPGFR  
PWVTEEAYVPVSDMNGLGFKPFDLVIPFAVRKGEITGEVHMPSGKTATPEIVDNKDGTVTVRYAPTEVGLHEMHI  
KYMGSHPESPLQFYVNYPNSGSVSAYGPGLVYGANKTATFTIVTEDAGEGGLDLAIEGPSKAEISCIDNKDGT  
CTVTVLPTLPGDYSILVKYNDKHIPGSPFTAKITDDSRRC SQVKLGSAADFLLDISETDLSSLTASIKAPSGRDE  
PCLLKRLPNNHIGISFIPREVGEHLVSIKKNGNHVANSFV SIMVVQSEIG

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**FIGURE 1285**

CTTCCCCAGCTGTGCACTCTCCATCCAGCTGTGCGCTCTCGTCGGGAGTCCCAGCCATGTCCGACGAGAGAGAGG  
TAGCCGAGGCAGCGACCGGGGAAGACGCCTCTTCGCCGCTCCGAAAACCGAGGCAGCGAGCGACCCCCAGCATC  
CCGCGGCCTCCGAAGGGGCCGCCGCCGCCGCTCGCCGCCACTGCTGCGCTGCCTAGTGCTCACCGGCTTTG  
GAGGCTACGACAAGGTGAAGCTGCAGAGCCGGCCGGCAGCGCCCCCGGCCCTGGGGCCCGCCAGCTGACGCTGC  
GTCTGCGGGCCTGCGGGCTCAACTTCGCAGACCTCATGGCTAGGCAGGGGCTGTACGACCGTCTCCCGCTCTGC  
CTGTCACTCCGGGCATGGAGGGCGCGGGTGTGTGATCGCAGTGGGCGAGGGAGTCAGCGACCGCAAGGCAGGAG  
ACCGGGTGATGGTGTGAACCGGTCAGGGATGTGGCAGGAAGAGGTGACTGTGCCCTCGGTCCAGACCTTCCTGA  
TTCCTGAGGCCATGACCTTTGAGGAAGCTGCTGCCTTGCTCGTCAATTACATTACAGCCTACATGGTCCTCTTTG  
ACTTCGGCAACCTACAGCCTGGCCACAGCGTCTTGGTACACATGGCTGCAGGGGGTGTGGGTATGGCTGCCGTGC  
AGCTGTGCCGTACAGTGGAGAATGTGACAGTGTTCGGAACGGCCTCGGCCAGCAAGCACGAGGCACTGAAGGAGA  
ATGGGGTCACACATCCCATCGACTATCACACGACTGACTACGTGGATGAGATCAAGAAGATTTCCCCTAAAGGAG  
TGGACATTGTCAATGGACCTCTGGGTGGGTGAGATACTGCCAAGGGCTACAACCTCCTGAAACCCATGGGCAAAG  
TCGTACCTATGGAATGGCCAACCTGCTGACGGGCCCCAAACGGAACCTGATGGCCCTGGCCCGGACATGGTGG  
ATCAGTTTACCGTGACAGCTCTGCAGCTGCTGCAGGCCAACCGGGCTGTGTGTGGCTTCCACCTGGGCTACCTGG  
ATGGTGAGGTGGAGCTGGTCAGTGGTGTGGTGGCCCGCTCCTGGCTCTGTACAACAGGGCCACATCAAGCCCC  
ACATTGACTCAGTCTGGCCCTTCGAGAAGGTGGCTGATGCCATGAAACAGATGCAGGAGAAGAAGAATGTGGGCA  
AGGTCTCTCTGGTTCCAGGGCCAGAGAAGGAGAACTAGGGCAAGTGGCTGTGAGACCCTAGAGACCAGCGAAGGG  
AGAAGTTGGGAAGCTACGTTCTGTTGGCCACCAGACTTGCAATTCAGCCTCTGTATAATGCTCTGCCCTCCCTC  
CCCCGAAGTTCTCTGTGGTGATGACCGCTCTCCCTGCCCTCCCCGCTTCCTGACCTCTGAAGAGGTTGGGAAG  
TGACCATTTGGATGTCTGGGCCCTGCCAAGGCGACAGGGAGGGTCAGAGGGAGGCCGGCTGCTTCTGCCCCCCAC  
CCTTTCCCCGGGCTGCTGTGCTGCTTTTGTGCCAAGGTTAGCCAGTCCCCCTGTTGTGTTCCATGTGCTTTCA  
CCTCTGCCTCATCTTTCTCTCCGTCCCTGCCCGCCACCTCCCCAAAGAATTGAAACGTCAGCTCAGGATATGGG  
GCCAATCTCTGTGAGTCCAGCATGTACCTGTCTCTCCCTAGTGTCCCTTCAGCCTGGGCTGACCAGTGCCGCTT  
CTGGGCTTGACCAGTTCCCAATCTCGTCCTCTGTCCCCAACTTCTTAAGCACAAATTGGGCTTCTTCCATCTCCAG  
GTTTTCTGCCATTCTTAACCAAGGCTGCCTCTTCCAACAGGGCGGGAATCAGACCTACTCCCCTAGGTCACAACT  
CTGGGAAGGATACAGAGCCCCCACCCTTCACTGAGTTCTCTGGATTTGTTCTCAGTGCCTTAGCAACGAAAACCT  
GTGCTTGTGTGTGTGTGGCGGCGGGGAGGGAGGATCCTGTTTCCACCTCCTTCTCCTCCCCTGTACTCCCCAGT  
GCCTTCCTTGTCTGTTGGTGGAGCTGGGGTTTCTCTCCTCCCCAGTCCCACAACACTGCCAAAAATCTGTGTATGTG  
CCATTGGGTGGGGCAGCCCCAAGCCTCCTGGGGAGGCAGGGCAAAAACAGGTGCCCTCATCGTGGTCTGTGCCAT  
GTCCCGTCTCTATGGTGGTTGAGGAGAAAGGCGGGGAAGCTTCCTCAGCCTTGAGATATGTGTGGCATTCTACTA  
GCCAGAGCTCTGAAAGGCAGTGCTGTCTGTTTCTTGTACTGGGACCAAAGTAAAAATCCAAGCACATTCCCCTTG  
CAGTTAGGGGAGGCCCTACTGCCTTCTCAAAGCAGAGAGGCAGCTTATCAAACCTCAGCCCAAACTCTGTTTACA  
TGGGTGGGGAGATGGAGCAGGGAAGTACAGAGTGGGATGGTCAGGACCTGGGCCATTGCAACCAAAATGGGGACT  
TCCTGGGTAGGGAGGTCACTCCCTCTACTCACTGAGCTAGGATTAGGGAGGGTTATTGCCCCAACCATTTGCAATG  
GGAGGTGGAGGGACAGGCTCAGCCTCCTCATTGTCTAAATGAGGCCTAAATGTGTGAAGTGCGATTTCTGCTTTT  
GTGTACCCACCAACCCATTACCACAGCTGCCTTTGTGTGTTTGTGTCAATAAAAAAGCCAAACCCTGGGAAAAAA  
AA

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**FIGURE 1286**

MSDEREVAEAAATGEDASSPPPKTEAASDPQHFAASEGAAAAAASPPLLRLCLVLTGFGGYDKVKLQSRPAAPPAPG  
PGQLTLRLRACGLNFADLMARQGLYDRLPPLPVTPGMEGAGVVIAGGEGVSDRKAGDRVMVLNRSGMWQEEVTVP  
SVQTFLLIPEAMTFEEAAALLVNYITAYMVLFDGFLQPGHSLVHMAAGGVGMAAVQLCRTVENVTVFGTASASK  
HEALKENGVTHTPIDYHTTDYVDEIKKISPKGVDIVMDPLGGSDTAKGYNLLKPMGKVVTYGMANLLTGPKRNLMA  
LARTWWNQFSVTALQLLQANRAVCGFHLGYLDGEVELVSGVVARLLALYNQGHKPHIDSVWPFEEKVADAMKQMQ  
EKKNVGKVLVPGPEKEN

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**FIGURE 1287**

CGCTGTCGCCGCCAGTAGCAGCCTTCGCCAGCAGCGCCGCGGCGGAACCGGGCGCAGGGGAGCGAGCCCGGCCCC  
GCCAGCCCAGCCCAGCCCAGCCCTACTCCCTCCCCACGCCAGGGCAGCAGCCGTTGCTCAGAGAGAAGGTGGAGG  
AAGAAATCCAGACCCTAGCACGCGCGCACCATCATGGACCATTATGATTCTCAGCAAACCAACGATTACATGCAG  
CCAGAAGAGGACTGGGACCGGGACCTGCTCCTGGACCCGGCCTGGGAGAAGCAGCAGAGAAAGACATTACGGCA  
TGGTGTAACCTCCCACCTCCGGAAGGCGGGGACACAGATCGAGAACATCGAAGAGGACTTCCGGGATGGCCTGAAG  
CTCATGCTGCTGCTGGAGGTTCATCTCAGGTGAACGCTTGGCCAAGCCAGAGCGAGGCAAGATGAGAGTGCACAAG  
ATCTCCAACGTCAACAAGGCCCTGGATTTTCATAGCCAGCAAAGGCGTCAAACCTGGTGTCCATCGGAGCCGAAGAA  
ATCGTGGATGGGAATGTGAAGATGACCCTGGGCATGATCTGGACCATCATCCTGCGCTTTGCCATCCAGGACATC  
TCCGTGGAAGAGACTTCAGCCAAGGAAGGGCTGCTCCTGTGGTGTGAGAGAAAGACAGCCCCCTTACAAAAATGTC  
AACATCCAGAACTTCCACATAAGCTGGAAGGATGGCCTCGGCTTCTGTGCTTTGATCCACCGACACCGGCCCGAG  
CTGATTGACTACGGGAAGCTGCGGAAGGATGATCCACTCACAAATCTGAATACGGCTTTTGACGTGGCAGAGAAG  
TACCTGGACATCCCCAAGATGCTGGATGCCGAAGACATCGTTGGAACCTGCCCCACCGGATGAGAAAGCCATCATG  
ACTTACGTGTCTAGCTTCTACCACGCCTTCTCTGGAGCCCAGAAGGCGGAGACAGCAGCCAATCGCATCTGCAAG  
GTGTTGGCCGTCAACCAGGAGAACGAGCAGCTTATGGAAGACTACGAGAAGCTGGCCAGTGATCTGTTGGAGTGG  
ATCCGCCGCACAATCCCGTGGCTGGAGAACC GGCTGCCCGAGAACACCATGCATGCCATGCAACAGAAGCTGGAG  
GACTTCCGGGACTACCGGCGCCTGCACAAGCCGCCCAAGGTGCAGGAGAAGTGCCAGCTGGAGATCAACTTCAAC  
ACGCTGCAGACCAAGCTGCGGCTCAGCAACCGGCCTGCCTTCATGCCCTCTGAGGGCAGGATGGTCTCGGACATC  
AACAATGCCTGGGGCTGCCTGGAGCAGGTGGAGAAGGGCTATGAGGAGTGGTTGCTGAATGAGATCCGGAGGCTG  
GAGCGACTGGACCACCTGGCAGAGAAGTTCCGGCAGAAGGCCTCCATCCACGAGGCCTGGACTGACGGCAAAGAG  
GCCATGCTGCGACAGAAGGACTATGAGACCGCCACCCTCTCGGAGATCAAGGCCCTGCTCAAGAAGCATGAGGCC  
TTCGAGAGTGACCTGGCTGCCACCAGGACCGTGTGGAGCAGATTGCCGCCATCGCACAGGAGCTCAATGAGCTG  
GACTATTATGACTCACCCAGTGTCAACGCCCGTTGCCAAAAAGATCTGTGACCAGTGGGACAATCTGGGGGCCCTA  
ACTCAGAAGCGAAGGGGAAGCTCTGGAGCGGACCGAGAAACTGCTGGAGACCATTGACCAGCTGTACTTGGAGTAT  
GCCAAGCGGGCTGCACCCCTTCAACAAGTGGATGGAGGGGGCCATGGAGGACCTGCAGGACACCTTCATTGTGCAC  
ACCATTGAGGAGATCCAGGGACTGACCACAGCCCATGAGCAGTTCAAGGCCACCCTCCCTGATGCCGACAAGGAG  
CGCCTGGCCATCCTGGGCATCCACAATGAGGTGTCCAAGATTGTCCAGACCTACCACGTCAATATGGCGGGCACC  
AACCCTACACAACCATCACGCCTCAGGAGATCAATGGCAAATGGGACCACGTGCGGCAGCTGGTGCCTCGGAGG  
GACCAAGCTCTGACGGAGGAGCATGCCGACAGCAGCACAATGAGAGGCTACGCAAGCAGTTTGGAGCCCAGGCC  
AATGTTCATCGGGCCCTGGATCCAGACCAAGATGGAGGAGATCGGGAGGATCTCCATTGAGATGCATGGGACCCTG  
GAGGACCAGCTCAGCCACCTGCGGCAGTATGAGAAGAGCATCGTCAACTACAAGCCAAAGATTGATCAGCTGGAG  
GGCGACCACCAGCTCATCCAGGAGGCGCTCATCTTCGACAACAAGCACACCAACTACACCATGGAGCACATCCGT  
GTGGGCTGGGAGCAGCTGCTCACCACCATCGCCAGGACCATCAATGAGGTAGAGAACCAGATCCTGACCCGGGAT  
GCCAAGGGCATCAGCCAGGAGCAGATGAATGAGTTCCGGGCCCTCCTTCAACCACTTTGACCGGGATCACTCCGGC  
ACACTGGGTCCCGAGGAGTTCAAAGCCTGCCTCATCAGCTTGGGTATGATATTGGCAACGACCCCCAGGGAGAA  
GCAGAATTTGCCCGCATCATGAGCATTGTGGACCCCAACCGCCTGGGGGTAGTGACATTCCAGGCCTTCATTGAC  
TTCATGTCCCGCGAGACAGCCGACACAGATACAGCAGACCAAGTCATGGCTTCCTTCAAGATCCTGGCTGGGGAC  
AAGAACTACATTACCATGGACGAGCTGCGCCGCGAGCTGCCACCCGACCAGGCTGAGTACTGCATCGCGCGGATG  
GCCCCCTACACCGGCCCGGACTCCGTGCCAGGTGCTCTGGACTACATGTCCTTCTCCACGGCGCTGTACGGCGAG  
AGTGACCTCTAAATCCACCCCGCCCGGCCCTCGTCTTGTGCGCCGTGCCCTGCCTTGACCTCCGCCGTGCCC  
CATCTCCTGCCTGGGTTTCGGTTTCAGCTCCAGCCTCCACCCGGGTGAGCTGGGGCCCACGTGGCATCGATCCTC  
CCTGCCCCGGAAGTGACAGTTTACAAAATTATTTTCTGCAAAAAAGAAAAAAGTTACGTTAAAAACCAAAAA  
CTACATATTTTATTATAGAAAAAGTATTTTTTCTCCACCAGACAAATGGAAAAAAGAGGAAAGATTAACTATTT  
GCACCGAAATGTCTTGTGTTTGTGCGACATAGGAAAATAACCAAGCACAAAGTTATATTCCATCCTTTTTACTGA  
TTTTTTTTTCTTCTATCTGTTCCATCTGCTGTATTCAATTTCTCAATCTCATGTCCATTTTGGTGTGGGAGTCGG  
GGTAGGGGGTACTCTTGTCAAAAGGCACATTGGTGCCTGTGTGTTTGCTAGCTCACTTGTCCATGAAAATATTTT  
ATGATATTAAAGAAAATCTTTTG

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**FIGURE 1288**

MDHYDSQQTNDYMQPEEDWDRDLLLDPWEKQQRKTFTAWCNSHLRKAGTQIENIEEDFRDGLKMLLLEVISGE  
RLAKPERGKMRVHKISNVNKALDFIASKGVKLVSIGAEEIVDGNVKMTLGMIWTIILRFQIDISVEETSACEGL  
LLWCQRKTAPYKNVNIQNFHISWKDGLGFCALIHRRPELIDYGKLRKDDPLTNLNTAFDVAEKYLDIPKMLDAE  
DIVGTARPDEKAIMTYVSSFYHAFSGAQKAETAANRICKVLAVNQENEQLMEDYEKLASDLLEWIRRTIPWLENR  
VPENTMHAMQQKLEDFRDYRRLHKPPKVQEKQLEINFNTLQTKLRLSNRPAFMPSEGRMVSDINNAWGCLEQVE  
KGYEEWLLNEIRRLERLDHLAEKFRQKASIHEAWTDGKEAMLRQKDYETATLSEIKALLKKHEAFESDLAAHQDR  
VEQIAAIAQELNELDYDSPSVNARCQKICDQWDLGALTQKRREALERTEKLETTIDQLYLEYAKRAAPFNNWM  
EGAMEDLQDTFIVHTIEEIQGLTTAHEQFKATLPDADKERLAILGIHNEVSKIVQTYHVNMAAGTNPYTTITPQEI  
NGKWDHVRQLVPRRDQALTEEHARQQHNERLRKQFGAQANVIGPWIQTKMEEIGRISIEMHGTTLEDQLSHLRQYE  
KSIYNYKPKIDQLEGDHQLIQEALIFDNKHTNYTMEHIRVGWEQLLTTIARTINEVENQILTRDAKGISQEQMNE  
FRASFNHFD RDHSGTLGPPEEFKACLISLGYDIGNDPQGEAEFARIMSIVDPNRLGVVTFQAFIDFMSRETADTDT  
ADQVMASFKILAGDKNYITMDELRRRELPPDQAEYCIARMAPYTGPDSPGALDYMSFSTALYGESDL

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**FIGURE 1289**

CTGCCACTGCCACCTCGCGGATCAGGAGCCAGCGTTGTTGCCCCGACGCCTCGCTGCCGGTGGGAGGAAGCGAGA  
GGGAAGCCGCTTGGGCTCTTGTGCGCGCTGCTCGCCACCGCCTGGAAGAGCCGAGCCCCGGCCAGTCGGTCGCT  
TGCCACCGCTCGTAGCCGTTACCCGCGGGCCGCCACAGCCGCCGGCGGGAGAGGCGCGGCCATGGCTTCTGGAG  
CCGATTCAAAAGGTGATGACCTATCAACAGCCATTCTCAAACAGAAGAACCGTCCCAATCGGTTAATTGTTGATG  
AAGCCATCAATGAGGACAACAGTGTGGTGTCTTGTCCCAGCCCCAAGATGGATGAATTGCAGTTGTTCCGAGGTG  
ACACAGTGTGTGCTGAAAGGAAAGAAGAGACGAGAAGCTGTTTGCATCGTCCTTTCTGATGATACTTGTCTGATG  
AGAAGATTCCGATGAATAGAGTTGTTCCGAATAACCTTCGTGTACGCCTAGGGGATGTCATCAGCATCCAGCCAT  
GCCCTGATGTGAAGTACGGCAAACGTATCCATGTGCTGCCATTGATGACACAGTGAAGGCATTACTGGTAATC  
TCTTCGAGGTATACCTTAAGCCGTACTTCCTGGAAGCGTATCGACCCATCCGAAAGGAGACATTTTTCTTGTCC  
GTGGTGGGATGCGTGCTGTGGAGTTCAAAGTGGTGGAACAGATCCTAGCCCTTATTGCATTGTTGCTCCAGACA  
CAGTGATCCACTGCGAAGGGGAGCCTATCAAACGAGAGGATGAGGAAGAGTCCTTGAATGAAGTAGGGTATGATG  
ACATTGGTGGCTGCAGGAAGCAGCTAGCTCAGATCAAAGAGATGGTGAAGTGCCTGAGACATCCTGCCCTCT  
TTAAGGCAATTGGTGTGAAGCCTCCTAGAGGAATCCTGCTTTACGGACCTCCTGGAACAGGAAAGACCCTGATTG  
CTCGAGCTGTAGCAAATGAGACTGGAGCCTTCTTCTTCTTGATCAATGGTCTGAGATCATGAGCAAATTGGCTG  
GTGAGTCTGAGAGCAACCTTCGTAAAGCCTTTGAGGAGGCTGAGAAGAATGCTCCTGCCATCATCTTCATTGATG  
AGCTAGATGCCATCGCTCCCAAAGAGAGAAAACTCATGGCGAGGTGGAGCGGCGCATTGTATCACAGTTGTTGA  
CCCTCATGGATGGCCTAAAGCAGAGGGCACATGTGATTGTTATGGCAGCAACCAACAGACCCAACAGCATTGACC  
CAGCTCTACGGCGATTTGGTGCCTTTGACAGGGAGGTAGATATTGGAATTCCTGATGCTACAGGACGCTTAGAGA  
TTCTTCAGATCCATACCAAGAACATGAAGCTGGCAGATGATGTGGACCTGGAACAGGTAGCCAATGAGACTCACG  
GGCATGTGGGTGCTGACTTAGCAGCCCTGTGCTCAGAGGCTGCTCTGCAAGCCATCCGCAAGAAGATGGATCTCA  
TTGACCTAGAGGATGAGACCATTGATGCCGAGGTGATGAACCTCTTAGCAGTTACTATGGATGACTTCCGGTGGG  
CCTTGAGCCAGAGTAACCCATCAGCACTGCGGGAAAACCGTGGTAGAGGTGCCACAGGTAACCTGGGAAGACATCG  
GGGGCCTAGAGGATGTCAAACGTGAGCTACAGGAGCTGGTCCAGTATCCTGTGGAGCACCCAGACAAATTCCTGA  
AGTTTGGCATGACACCTTCCAAGGGAGTTCTGTTCTATGGACCTCCTGGCTGTGGGAAAACCTTTGTTGGCCAAAG  
CCATTGCTAATGAATGCCAGGCCAACTTCATCTCCATCAAGGGTCTGAGCTGCTCACCATGTGGTTTGGGGAGT  
CTGAGGCCAATGTGAGAGAAATCTTTGACAAGGCCCGCCAAGCTGCCCCCTGTGTGCTATTCTTTGATGAGCTGG  
ATTGATTGCCAAGGCTCGTGAGGTAACATTGGAGATGGTGGTGGGGCTGCTGACCGAGTCATCAACCAGATCC  
TGACAGAAATGGATGGCATGTCCACAAAAAATGTGTTTCATCATTGGCGCTACCAACCGGCCTGACATCATTG  
ATCCTGCCATCCTCAGACCTGGCCGTCTTGATCAGCTCATCTACATCCACTTCTGATGAGAAGTCCCGTGTG  
CCATCCTCAAGGCTAACCTGCGCAAGTCCCCAGTTGCCAAGGATGTGGACTTGGAGTTCCTGGCTAAAATGACTA  
ATGGCTTCTCTGGAGCTGACCTGACAGAGATTGCCAGCGTGCTTGCAAGCTGGCCATCCGTGAATCCATCGAGA  
GTGAGATTAGGCGAGAACGAGAGAGGCAGACAAACCCATCAGCCATGGAGGTAGAAGAGGATGATCCAGTGCCTG  
AGATCCGTCGAGATCACTTTGAAGAAGCCATGCGCTTTGCGCGCCGTTCTGTGTCAGTGACAATGACATTCGGAAGT  
ATGAGATGTTTGCCAGACCCTTCAGCAGAGTCGGGGCTTTGGCAGCTTCAGATTCCCTTCAGGGAACAGGGTG  
GAGCTGGCCCCAGTCAGGGCAGTGGAGGCGGCACAGGTGGCAGTGTATACACAGAAGACAATGATGATGACCTGT  
ATGGCTAAAGTGGTGGTGGCCAGCGTGCAGTGAGCTGGCCTGCCTGGACCTTGTTCCTGGGGGTGGGGCGCTTGC  
CCAGGAGAGGGACCAGGGGTGCGCCACAGCCTGCTCCATTCTCCAGTCTGAACAGTTCAGCTACAGTCTGACTC  
TGGACAGGGGGTTTCTGTTGCAAAAATACAAAACAAAAGCGATAAAAATAAAGCGATTTTCATTTGGTAGGCGGA  
GAGTGAATTACCAACAGGGAATTGGGCCTTGGGCCTATGCCATTTCTGTTGTAGTTTGGGGCAGTGCAGGGGACC  
TGTGTGGGGTGTGAACCAAGGCACTACTGCCACCTGCCACAGTAAAGCATCTGCACTTGACTCAATGCTGCCCCGA  
GCCCTCCCTTCCCCCTATCCAACCTGGGTAGGTGGGTAGGGGCCACAGTTGCTGGATGTTTATATAGAGAGTAGG  
TTGATTTATTTTACATGCTTTTGAAGTAAATGTTGGAAAACTAATCACAGCAGTTTCTAAACCAAAAAATGACAT  
GTTGTAAAAGGACAATAAACGTTGGGTCAAAATGGAAAAA

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**FIGURE 1290**

MASGADSKGDDLSTAILKQKNRPNRLIVDEAINEDNSVVSLSQPKMDELQLFRGDTVLLKGKKRREAVCIVLSDD  
TCSDEKIRMNRVVRNNLRVRLGDVISIQPCPDVKYGKRIHVLPIDDTVEGITGNLFEVYLKPYFLEAYRPIRKGD  
IFLVRGGMRAVEFKVVETDPSPYCIVAPDTVIHCEGEPKREDEEESLNEVGYYDDIGGCRKQLAQIKEMVELPLR  
HPALFKAIGVKPPRGILLYGPPGTGKTLIARAVANETGAFFFLINGPEIMSKLAGESESNLKAFEEAEKNAPAI  
IFIDELDAIAPKREKTHGEVERRIVSQLLTLMMDGLKQRAHVIVMAATNRPN SIDPALRRFGRFDREVDIGIPDAT  
GRLEILQIHTKNMKLADDVDLEQVANETHGHVGADLAALCSEAAALQAIRKKMDLIDLEDETIDA EVMNSLAVTMD  
DFRWALSQSNP SALRETVVEVPQVTWEDIGGLE DVKRELQELVQYPVEHPDKFLKFGMTPSKGVLFYGP PGCGKT  
LLAKAIANECQANFISIKGPELLTMWFG ESEANVREIFDKARQAAPCVLFFDELDSIAKARGGNIGDGGGAADRV  
INQILTEMDGMSTKKNVFIIGATNRPD IIDPAILRPGRLDQLIYIPLPDEKSRVAILKANLRKSPVAKDVDLEFL  
AKMTNGFSGADLTEICQRACKLAIRE SIESEIRRRERERQTNPSAMEVEEDDPVPEIRRDHFEEAMRFARRSVSDN  
DIRKYEMFAQTLQQSRGFGSFRFP SGNQGGAGFSQGSGGGTGGSVYTEDNDDDLYG



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**FIGURE 1291**

CGGCGCCGCGAGGGGATTGAGGGGTTGACTGAGCGTTGCGAGCCTTAGCTTTCTCCCGAACGCCAGCGCTGAGGAC  
ACGATGTCGCGGCTCTCCCGCTCACTGCTTTGGGCCGCCACCTGCCTGGGCGTGCTCTGCGTGCTGTCCGCGGAC  
AAGAACACGACCCAGCACCCGAACGTGACGACTTTAGCGCCCATCTCCAACGTAACCTCGGCGCCGGTGACGTCC  
CTCCCGCTGGTCACCACTCCGGCACCAGAAACCTGTGAAGTTCGAAACAGCTGCGTTTTCTGTTTTAATGTTAGC  
GTTGTTAATACTACCTGCTTTTGGATAGAATGTAAAGATGAGAGCTATTGTTACATAACTCAACAGTTAGTGAT  
TGTCAGTGGGGAACACGACAGACTTCTGTTCCGCTAAACCCACAGTTCAGCCCTCCCCTTCTACAACCTCCAAG  
ACAGTTACTACATCAGGTACAACAAATAACACTGTGACTCCAACCTCACAACCTGTGCGAAAGTCTACCTTTGAT  
GCAGCCAGTTTCATTGGAGGAATTGTCCTGGTCTTGGGTGTGCAGGCTGTAATTTTCTTTCTTTATAAAATCTGC  
AAATCTAAAGAACGAAATTACCACACTCTGTAAACAGACCCATTGAATTAATAAGGACTGGTGATTCAATTTGTGT  
AACTCACTGAAGCCAAAATACTATCTTTTAAGATGTCCACATGGAAGACGCTATTCCAGGATCTTTAAATTTCC  
ATGGATGCATATAGGATGTTTGGGAGCATCATCCGTGAAGAAAAATCAATTAATCATTGTGTTCAACAGGAAT  
ATTTAAATATTCTGCATGAATCCTGTGGCTGTCTTATTTTAAATAGCTGCTGCTGTGGGATTATATTTTTTTTC  
CTTAACATGCCAAATATAACTTTCTGAAAGTGATGGAAAATGTTGTCTTGTGCAGACAACATCATGGCTCTTGGC  
AGTTTAAATTTAGTAATTTTAAATTTAGTGAACAGAATTGAGAAGAACGTGCCAAATGAGAATCAATTAGGTGGAT  
TTTTGGCTGTCATTTCAAAGTGGAATAAATTTATTAATTTAGTAGTACTAAATGGTATCCTTAGATTAAAATTT  
TGTGCTTGATAACAGCTGTTTTTTCTACATTAGAAAATAAGATGCCACACAAGGAACCTACATTCCAGATTTAAAGA  
AATGAAAGGATAACCATTAGTGTGTATAACAGATTATTGTTTCATACTTGTAAGCATCTTATGTCAATTGAGAATAT  
AAAGAACAGTGCCCTTAGAAGACAGTGAAAGGTAAGCTCTAGCTTAATGTCTATGATTTGTTCTTTGACATTAAGG  
AAGGTAAGGATTGGTCAGAGGATGTAACCTTGATGTGAGCAGTAGTAAACCTGTTTTAGATATCATACTGTTAATA  
TTTTATTGAAAATTTATTTTCAGAGCGGAGAAACTTAAGCTAAAGTCTGTTATACAGAATTGAAAGCCTTCGTATC  
TTGAACCTCCCAACATTTTTCTTATGGCTGTTGAAAAGTATAGAGCTAAATTGATTTAATTACACTTTCCCTTGT  
ACTTTAAAAAAAAGTATGCTAGCACTATTGTACCTTGAAAGGATTTCCACCAGACTGTCTTGAGTAGTGACTTCT  
TTGGTGAGGCAAGAAGGATATACATTATTTTAGAATCATTACTATTTAAATGAGACAATCATATTATTTTAGAA  
TCATTTATTTTAAATGAGACAATCATTTTAAAGTTTTAAGATAACAGAAGTGACCAATGTAATTTACAACACCTA  
AGGATTTTTTGGTTGATCAGGTTACTGTAGATTTTTACTGATTGTCCTGGATGAATAGACTGTGCTTTTTCTTTT  
TCTCTCCCTTCCTTCTTGGTTTCCCATAGTATAATAAGCATGCATACTTTAACTTCTATAGTTTTCTCCTTTAGA  
GGGTCGTCTTCAGTTTTAGAGGTTTACTTCTCCCTTGCCCTTGACTCATTGGACTAGTGCAGAGGCTTTAAGTAG  
TTTAAATGGGCTTTTGCTTTTCTAGGTCATTAACGTTTTTTATTTAGTTTCTTTAGCCAATAGTGGCTGAGTTT  
CGCACTTGATTTTCAATATTTTATAGTAAGAAATGACAACTGCTTTGTTTCATTTCATAAACAACTCTGCATT  
TAGATAACTATTAAAGGTTGTTAAGATGAAGATTTACTGTTTCTTTGTTTACTCGTTGGTACAGCTGTTTGTTTA  
CTTGACATTTGTACATATACTTAATGTTTTCAAGTGCCCTAATTGTTTAAATCTCTGGCTTCAAAGTTTCTTG  
GGGAAAGGTCGTTTACCTCACATTTTTGTTTCCATTAGTAATATTCTAGGTACCTCACAAAATGTATTATGGT  
GCCATGGCTGTTAGTTTTTAGTGAGTGCTGTAGGATTAATTCGAAAATAGGCAGAATTCATTCTCCCAAGGTG  
GCAAAAATTAGCTATACTGATGTAATTGTCATTTACCTGGGTATGAATTCCTGACACACATTCATGTCAACATA  
TGTAGCAAATTTTGTGAAAACATAACAATTTGAAGCTTCTGTAATTTTGAGCACTGCTCTAACAACAAGCATAAT  
ATAAAATTAGTTAGATTTTGCAAGTCTACAAATGAGCTCTTGCAACAGAACTCACAGCCTTTTTACTTTTTTCCC  
CTAACTTTAGCAATGTAGTATCTTGAGCCATTAATTTTTGGGTTTTTTTTAAATCCAGAAGGTATATAGAAACCT  
TTTCAGATTTTTCATCTGATTTGTTCTTGAGATGTTCTTCTATCAAATACCTTATTTTACCTTACAGATATTTG  
TTGCACAGGCAGATACTGCTGTATTTAGACATTTCTATTTTCAGTTCATTAATACTGCAAAACCAATCTGTATCA  
TGTACCAAACCTGACTTAAATAAATCTACATGTTTATTGAATT

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**FIGURE 1292**

MSRLSRSL LWAATCLGVLCVLSADKNTTQHPNVTTLAPISNVT SAPVTS LPLVTT PAPETCEGRNSCVSCFNVSV  
VNTTCFWIECKDESYCSHNSTVSDCQVGNTTDFCSAKPTVQPSPSTTSKTVTTSGTTNNTVTPITSQPVRKSTFDA  
ASFIGGIVLVLGVQAVIFFLYKFCKSKERNYHTL

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**FIGURE 1293A**

CTGAACTAGTTGCCAGTGATCTTGAAACGTGACAGTAACCAAGAGATAAATAGGTGACAATGACAGGAAAAATTAG  
ATGTAGTAAAAGAGAGTGTTTGAGAGCAGAAGCTATGGCAACTAAAGACTGGATTGGAATCCTTCCTAGCTTGGT  
GACATGAGCAAATTACTTGATTTAAGTGAGCATTTCCTCATCTGTACAGTGGAGATAACGATAAATTGTGCCTGCT  
AAGAAGAATTGCTGTGAAGATTAGTGAAATAATGCATGTAAACATTGGGTACAGTATGTGACACATAGTACAAA  
TAGTTTGCTAGGAAGATTGTTATTATTCTTCACTTGTGATATTGTGAAGTTTTTCATACAGCAAATTGGACATCAT  
GAGATGGATTGATTAAATAAATAGATTTGAACCTCAAGGACTGGTAGTGTTCTTGCTTTGGAAAGAAGAACTTG  
GTTTATCCTAATAATAGTAGGATAATAATGGTGAAGTGATAGGTACAAGTAATAGTGTTTATGATGCGCTGGTGA  
TGATAGGAAAAGAAAGCCATTATATGGGCAAGAGCTAGAAGTAATAAAATGGTGCATTTTTTCAGTGATGTTTGGC  
CTATGTAGCTATTCTCTGATAACTATAAAAAATCCTTATTATTGAAGATTCTTCAGGAAAAAAAAAACCTTAGTCT  
GAACTTTAGCACCAATCCCCCTTGCCCCCATTGAAATACGTATTTTTTAAACATGGCTTTTGATAATGTGAGG  
GTTTTTCTTTTTTGCGATTTAGCAGTGCTGATTGTGTATTGCAGTAGTTGTGAGAGCATTAGAAGCAGCAGTCG  
ATAGGAGGATGGAAGGTCTGGATGCCGCCTTGGGGAGTTAGGAGATTGGCAGACTTACCCTGTACCACTCTAGCC  
CTACTCCTTTGCCAAGACAGAAACACACTGAGATGGATAGGAGAATATGAGCAGTTGATAGGAAAGTTCTCAGT  
GGAGTCAGGATTTAGGTTAGGCCAGGAGATTGAGAATATAACAGTTTGTGTATGATGAAATGGCATATTTACAG  
AATGCAGTAAAAGCAGGTAGGGTACAAGTGCAGCAACAGGAAGATGCTTTTTCTTCATTACAGCAAACACTTATTT  
GAGAGCTTACCATGTGCTAGGCACATACAAAGATAAAATAAGATGCCCTTGATGATCCTCTATTTAAAGGAGACAT  
GTAAACAGGTTAACTTAGAGTAGAGATGGTGAATATGTGAACCTGAGGAAAGGAAGAAATAGATTAAATTATCTG  
GAGAGAGAGGAAAAGTCAGCAGAATGGGGACGAGAATCTTTCGGAGCTCAGTGTTCTGATAGGAGTTATTTCTT  
GGGCATAGGTTCCAAGTATTTTTCTAATATACCATAGAAGCCAGGAAAACCTTTCTTCTGTTATCTCAAATGATTT  
AATTACTGACTTGAGTTTGTGTTGTCTCCTTAGACTTGTGCACC**ATG**GACAATTTTGCTGAGGGAGATTTCACTG  
TGGCGGATTATGCCTTGTTAGAAGATTGCCCTCACGTGGATGATTGTGTCTTTGCTGCTGAATTTATGAGCAATG  
ATTATGTTCTGTGACTCAGCTTTACTGTGATGGGGTGGGTGTGCAATATAAAGATTATATCCAAAGTGAGAGGA  
ATTTGGAATTTGACATCTGCAGTATATGGTGTAGTAAACCAATTTCTGTCTGCAAGATTATTGCGATGCCATTA  
AAATAAACATCTTCTGGCCACTTCTGTTTCAACATCAAAACAGTTCCGTAATATCACGATTGCATCCCTGTGTGG  
ACGCCAACCAATTCACGIGCTTCTGAGATAAAATTGAAGAAACTACAACATCTTGAGTTGATGGAAGATATTGTGG  
ATTTGGCAAAGAAAGTTGCTAATGATTCATTCTTATTGGAGGCTTATTGAGAATTGGTTGTAAATAGAAAATA  
AAATCTTGGCAATGGAAGAAGCTCTGAATTGGATAAAATATGCAGGCGATGTAACAATTCTAACTAAATTAGGAT  
CAATTGACAAATTGTTGGCCTATGTTAAGTATTTCTTACTGAATACAAGTACCACATAACTAAAATTGTAATGG  
AAGACTGCAATTTGCTTGAAGAACTTAAACTCAAAGTTGTATGGATTGTATAGAGGAAGGAGAACTAATGAAAA  
TGAAAGGAAATGAAGAGTTTTTCAAAGAAAGATTGATATAGCTATTATCTATTACACCAGAGCCATTGAATATA  
GACCTGAAAACCTACCTTCTTTATGGTAACCGAGCTCTTGTCTTCTCGTACTGGACAGTTTAGAAATGCACTCG  
GTGATGGAAGAGAGCCACTATTCTGAAGAACACTTGCCAAAGGGTCATTATCGTTATTGTGATGCTCTTTCTA  
TGCTGGGGGAATATGACTGGGCCCTGCAAGCAAACATAAAAGCTCAAAACCTCTGTAAAAATGACCCTGAGGGAA  
TCAAGGATCTAATTCAGCAGCATGTAAAGTTACAAAAACAAATAGAAGACCTACAAGGTGCAACAGCAAATAAGG  
ATCCAATTAAAGCCTTTTATGAAAACAGGGCCTACACACCTAGGAGTTTATCAGCACCTATATTTACTACTTCAC  
TTAACTTTGTGGAGAAGGAAAGAGATTTAGAAAAATTAATCACGAAATGGCCAACGGTGGTAATCAGAATCTAA  
AGGTGGCGGATGAGGCGTTGAAGGTAGATGATTGTGACTGTCATCCTGAATTTTCACCACCATCAAGTCAGCCTC  
CAAAACATAAAGGAAAACAAAAATCTCGAAACAATGAATCAGAAAAGTTCAGTTCTAGTTCACCATTGACTTTAC  
CAGCAGATTTGAAGAACATCTTGGAGAAACAGTTTTCTAAATCTTCCAGAGCTGCACACCAGGATTTTGCTAATA  
TAATGAAAATGCTGAGAAGCTTAATTCAAGATGGCTATATGGCCTTATTGGAGCAGCGTTGCCGAGCGCTGCAC  
AGGCCTTTACAGAGTTGCTGAACGGTTTAGATCCTCAAAAAATAAAGCAATTGAACCTGGCCATGATTAACCTATG  
TTTTGGTCTCTATGGACTTGCCATTTCTCTCCTTGGAAATAGGACAGCCTGAGGAATTATCTGAAGCCGAAAAACC  
AGTTTAAAGAGGATTATTGAACACTACCCACAGTGAGGGCCTTGATTGCTTGGCCTACTGTGGAATTGGAAAAAGTG  
ATTTGAAAAAAAACAGATTTCTAGAAGCTCTCAATCACTTTGAGAAAGCAAGAACCTTGATTTATCGTCTTCCCTG  
GAGTGTTAACTTGGCCCACGAGTAATGTGATTATTGAAGAGTCTCAGCCACAAAAAATAAAGATGCTGTTAGAGA  
AATTTGTTGAAGAATGCAAGTTCCTCCAGTGCCAGATGCCATTTGTTGCTATCAGAAGTGCCATGGATATTCTA  
AGATCCAGATATACATACTGATCCAGACTTTAAGGGTTTATACGCATCAGCTGTTGCCAGTACTGTAAAAATAG  
AATTTACATGAATTGCTGGAAGAAGTTAAAAACTACAACCTTTAATGATAAAATTGACAAGGATTTTCTACAAG

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**FIGURE 1293B**

GAATATGTCTTACCCCTGACTGTGAAGGTGTCATTTCTAAGATTATCATCTTCAGCAGTGGTGGTGAAGTTAAAT  
GTGAATTTGAACACAAGGTCATAAAAGAAAAGGTTCTCCAAGACCTATTCTGAAACAGAAATGTTCTAGCCTAG  
AGAACTAAGACTGAAAGAAGACAAAAAATTGAAGAGAAAGATCCAAAAAAGAAGCAAAAAAGTTAGCACAAAG  
AAAGAATGGAGGAGGACTTAAGAGAAAAGTAATCCACCCAAAAATGAAGAGCAGAAAGAACTGTAGACAATGTTT  
AGCGTTGTCAGTTCCCTTGATGACAGAATTCTACAGTGTATAAAGCAGTATGCTGACAAGATTAAATCCGGCATA  
AGAATACAGCCATGCTTCTCAAAGAATTGCTTTCTTGAAAAGTTTTGAGCACAGAAGACTATACAACCTGTTTT  
CTAGCAGAAAATTTCTAAATGAAGCAGTGGACTATGTTATTGCGCCACTTGATTCAAGAAAATAACAGAGTAAAGA  
CAAGAATATTTCTGCATGTTTTGAGTGAGCTTAAAGAAGTGGAGCCCAATTAGCCGCCTGGATCCAAAACTTA  
ATAGCTTTGGCTTAGATGCCACAGGAACCTTTCTTTCTCGTTATGGAGCATCTCTTAAACTGCTTGATTTTAGTA  
TCATGACTTTCTCTGGAATGAGAAATATGGTCACAACTAGACTCTATAGAAGGAAAGCAACTTGATTATTTCT  
CTGAGCCAGCATCATTGAAGGAAGCCCGTTGTTAATATGGCTGCTAGAAGAACACAGAGACAAGTTCCCAGCAT  
TGCATAGTGCTTTAGATGAATTCTTTGATATAATGGACAGCCGCTGTACTGTGTTAAGGAAACAAGATAGTGGTG  
AAGCACCGTTTAGTTCAACCAAGGTGAAAAACAAAAGCAAGAAAAAGAAGCCAAAGGATTCAAAGCCTATGTTAG  
TTGGGTCTGGAACAACCTTCAGTAACTTCAAATAATGAGATCATCACTTCAAGTGAAGACCATAGCAATCGAAAT  
CAGATTCTGCAGGCCCATTTGCAGTGCCTGACCATCTTCGGCAAGATGTAGAAGAATTCGAAGCTCTCTATGACC  
AACACAGTAACGAATATGTTGTCCGCAATAAGAAGCTATGGGACATGAACCCAAAACAAAAATGTTCAACTCTAT  
ATGATTACTTCTCTCAGTTTTTGGAGGAACATGGTCCCTTGGACATGAGTAACAAGATGTTCTCTGCAGAATATG  
AGTTTTTCCCAGAAGAACTCGACAGATACTAGAAAAAGCAGGAGGTTTAAACCTTTTCTCTTGGGATGCCCTC  
GTTTTGTTGTGATTGACAACCTGTATTGCACTGAAGAAGGTTGCATCACGGCTCAAGAAAAAAGGAAGAAGAAAA  
ACATTAAAAACAAAAGTAGAAGAAATTTCAAAGCAGGGGAGTATGTACGAGTTAACTACAACCTGAATCCAGCTG  
CTAGGGAATTTAAACCAGATGTAAAGTCTAAACCAGTGTGAGATTCTTTCAGCACCAGCTTTTGAAAATGTGA  
AACCCAAACCTGTGTCTGCAAATTTCTCCCAAGCCAGCTTGTGAAGATGTGAAGGCCAAACCAGTATCCGACAAT  
CTTCTAGACAAGTTTCTGAGGATGGGCAACCCAAAGGGGTCTCTTCTAATTCTCCTAAACCAGGCTCTGAGGATG  
CAAATTACAAGCGAGTCTCCTGTAATTTCCCCAAACCGGTTCTTGAGGATGTGAAACCAACTTATTGGGCTCAAT  
CCCATTTGGTCACAGGATACTGTACGTATCTTCTTTCCAGAGATTTGATATCACCCAGACACCGCCAGCATACA  
TAAACGTGTTACCAGTTTGCCCCAGTACACCAGCATATATACACCCTTGCCAGCCTTTCTCCTGAATATCAGC  
TACCAAGATCAGTACCAGTGGTGCCGTCTTTTGTAGCCAATGACAGAGCAGATAAAAATGCTGCTGCCTATTTTG  
AGGGTCATCATTTGAATGCTGAGAATGTTGCTGGTCACCAGATTGCCTCTGAAACACAGATCCTTGAGGGCTCTT  
TGGAATATCTGTAAAGTCACACTGCAGCACAGGTGATGCTCATACAGTCCTGAGTGAGTCTAACAGAAATGATG  
AGCACTGTGGAATTTCTAACAACAAATGTGAAGTAATTCAGAAAGCACCAGTGCAGTAACAAACATTCCACACG  
TGCAGATGGTTGCCATACAGGTATCTTGGAACATAATACACCAAGAAGTCAATACTGAGCCATATAATCCTTTTG  
AGGAACGACAAGGGGAAATTTACGGATTGAAAAGGAGCACCAAGTATTACAAGACCAACTTCAAGAAGTGTATG  
AAAATTATGAGCAGATAAACTTAAGGGCTTAGAAGAGACCAGGGACCTGGAAGAGAAGTTGAAAAGGCACTTAG  
AAGAAAAACAAGATCTCAAAGACGGAATTAGATTGGTTCTTCAAGATTTGGAAAGAGAAATTAAGAAATGGCAAC  
AGGAAAAAAGAAATCCAAGAAAGACTAAAATCACTGAAGAAGAAAAATTAAGAAAGTTTCAAATGCCAGTGAAA  
TGTATACCCAGAAAAATGATGGAAAGGAAAAGGAACATGAATTACATCTGGATCAGTCCCTTGAAATCAGCAACA  
CACTTACAAATGAGAAAAATGAAAATAGAAGAGTATATAAAGAAAGGGAAAGAGGATTATGAAGAGAGTCATCAGA  
GAGCTGTGGCTGCAGAGGTATCCGTACTTGAAAACCTGGAAGGAGAGTGAAGTGTATAAGCTACAGATCATGGAGT  
CACAAGCAGAAGCCTTTCTGAAGAAGCTGGGGCTGATTAGCCGTGATCCTGCAGCATATCCTGACATGGAGTCTG  
ATATACGTTTCATGGGAATTGTTTCTTTCTAATGTTACAAAAGAAATTGAGAAAGCAAAGTCTCAGTTTGAAGAAC  
AAATTAAGGCAATTAAGAAATGGTTCTCGGCTCAGTGAACCTTTCTAAAGTGCAGATTTCTGAGCTTTTCAATTCCTG  
CCTGTAACACGGTTTCATCCCGAGTTACTCCCTGAGTCTTCAGGCCACGATGGCCAAGGGCTTGTGACTTCTGCAA  
GCGACGTGACTGGAAACCACGCAGCACTTCACAGGGATCCTAGTGTGTTCTCTGCTGGTGATTCCCCAGGGGAGG  
CTCCTTCTGCGCTGTTGCCAGGGCCACCCCTGGTCAGCCTGAAGCCACTCAGCTGACAGGGCCAAAACGGGCTG  
GCCAGGCAGCTCTGTGAGAACGAAGCCCTGTGGCTGATCGGAAGCAGCCTGTTCTCCAGGACGTGCTGCGCGTT  
CAAGCCAGTCTCAAAAAAGCCGTTCAATAGTATTATTGAGCACCTGTGAGTGGTATTTCCATGTTACAACAGCA  
CTGAGCTTGCTGGTTTTATTAAAAAGTGCGAAGCAAAAACAAGAACTCACTCTCAGGATTGAGTATTGATGAAA  
TTGTCCAAAGAGTGACAGAACACATTCTAGATGAACAGAAAAAGAAAAAGCCAAACCCAGGAAAGGACAAGAGGA

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**FIGURE 1293C**

CTTATGAGCCCAGCTCTGCCACCCCCGTGACCAGGTCCTCCCAGGGCTCACCTCGGTGGTTGTTGCACCATCAC  
CCAAAACCAAGGGGCAGAAAGCAGAAGATGTCCCTGTGAGGATTGCACTGGGTGCAAGTTCCTGTGAAATATGCC  
ACGAGGTGTTCAAATCAAAAAACGTGCGTGTGCTCAAATGTGGGCACAAGTATCACAAAGGGTGCTTTAAGCAGT  
GGCTTAAAGGGCAGAGCGCTTGCCCCGGCCTGCCAGGGTCGTGATCTCCTGACAGAAGAGTCACTTCTGGAAGAG  
GCTGGCCCAGTCAGAATCAGGAGCTGCCTTCCTGCTCTTCTAGGTAGTCACACTTCACTAAAGTGTCTATCCACCA  
GTGTGTTGAATCCGAAGAATGACAATTTTCTACCACTGGTGTAAAAACAAACATTTGAAGACCCTTGTGCATTG  
TGTGTCACAAAGCTAAATACATGGAAATCGTTAATATCGCTGATATTAAGTAATTTCCCCACTCTGAGTGAATAC  
TTTGATGATTGCCAACAGTGGCTAATAAAATGACGGCTACCACACTCATGGGTCCTGAGGCTGCGCAGGGCTCT  
TTGAGGTGGGTGGCTTCTTTTGGAAAGTACTATGAACGTCTCGAAGCAGTATTCTAGTGATAAGAATTCTTAACA  
TAGCCAAGCGCCCCACGTTTGTTCCTTGTTCCTTTTCTGTTTGAAAAACCTGTTCTGGTAGCTCCAC  
AAGAGAGATGATACTGACTTTTTTAAATTTTTTACAAGAGTCTGTATTCTGATATGCCTATATTTTTCTCAAAG  
ATTCTGCATTTTAAGGATGGGCATAAGCAAACCTATATTTTAATAATTTATAGTTAATGTTAAAAATATTGGCTGAT  
TTAGACCAAAAGATTCAAATCTCCTCTTTGTGAAATCCCATCTGCATTTGATTTTTTATTATTTTATGTTCCCCC  
GTTAGATTGTTTTAAGTGTGTGCTTTTCATCTTTTATAGATGTAATCTGATTTTTCAAAAATCATTAAACACTTTTT  
AATTAGTATCGACTAAGACTTTTTCCCCCTGGAATCGAGGCTGTGTGTCCGTCTATCCAGCCCCCGGTTGGAGCC  
TGCTCTTTGAACTCCGCTGCCTTCCTTAGCAGCTTCTGTCTCTTCTGTGAGTCAGTCAGCGAGTGCTTGGGATC  
CGCATCCAGCCGTGCTGAGCACACAACAGGCTGTGTGTGGAAATGGCCACCACCATTCTCCTTCCCCACCCACC  
ACAAAAAGAGAAGCTGTGTCTTTAGACAACCCTGAGGTATCTGTGTTACAATCGTTCTGTGTTTGATATTTGTGT  
AAAGTATGCATGCAGTCTTGTACTGTGACCTAAGAACAACCTGTAAGTGCATTAGAAACCATGAAAAAATTAGA  
TATTGTTTTGTGACTTTTAGACAGTGGTAAATATAGAACCATGAATTCTGGTCACATTCCATTTCTCTCCAACAT  
GAAGGATCAAAAAATGTTTTTCAATGTGTTCTTTGTTCCACTGGAACTTAGAGTCATGAGTTTATGAGCTGATT  
TGGTCACCTTCCTCTGCCTTTGTTCACTGTGAGTTCTGATGTCTTAGTGACTTAGTTCTTAGAAGCTCACGCCTT  
AGTTTGAAACAGATTCTCCACGGTGGTCCCCAAAAACCTGTCTGCATATCCATAAGAATTGAGCGCTATGGGTGT  
TAACGTGCATGAGGATCAGTTTGCAGCAGCAAGTACAAAAGGAGAAGAGGAACATCCGTTGAATGAGTGTGTTTT  
GTACATAACTTCAGATACTTGTGAACATGCCTTATATTTGTCCAACAACCTGTCAGAATAAAGAACATTCTAAAT  
GAG

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**FIGURE 1294**

MDNFAEGDFTVADYALLED CPHVDDCVFAAEFMSNDYVRVTQLYCDGVGVQYKDYIQSER NLEFDICS IWCSKPI  
SVLQDYCDAIKINIFWPLL FQHQNSSVISRLHPCVDANNSRASEINLKKLQHLELMEDIVDLAKKVANDSFLIGG  
LLRIGCKIENKILAMEEALNWKYAGDVTILT KLGSIDNCWPMLSIFFT EYKYHITKIVMEDCNLLEELKTQSCM  
DCIEEGELMKMKGNEEF SKERFDIAIIYYTRAIEYRPENYL LYG NRALCFLRTGQFRNALGDGKRATILKNTWPK  
GHYRYCDALSMLGEYDWALQANIKAQKLCCKNDPEGIKDLIQQHVKLQKQIEDLQGR TANKDPIKAFYENRAYTPR  
SLSAPIFTTSLNFVEKERDFRKINHEMANGGNQNLKVADEALKVDDCDCHPEFSPSSQPPKHKGKQKSRNNESE  
KFSSSSPLTLPADLKNILEKQFSKSSRAAHQDFANIMKMLRSLIQDGYMALLEQRCRSAAQAFTELLNGLDPQKI  
KQLNLAMINYVLVVG LAISLLGIGQPEELSEAENQFKRIIEHYPSEGLDCLAYCGIGKVYLKKNRFLEALNHFE  
KARTLIYRLPGVLTWPTSNVIEESQPQIKMLLEKFVEECKFPVPDAICCYQKCHGYSKIYIYITDPDFKGF I  
RISCCQYCKIEFHMNCWKKLKTTFNDKIDKDFLQGICLTPDCEGVISKIIFSSGGEV KCEFEHKVIEKEVPPR  
PILKQKCSSLEKLRLKEDKKLKRKIQKKEAKKLAQERMEEDLRESNPPKNEEQKETVDNVQRCQFLDDRILQCIK  
QYADKIKSGIQNTAMLLKELLSWKVLSTEDYTTCFSSRNFLNEAVDYVIRHLIQENNRVKTRIFLHVLSELKEVE  
PKLAAWIQKLNSFGLDATGTFFSRYGASLKLDFSIMTFLWNEKYGHKLD SIEGKQLDYFSEPASLKEARCLIWL  
LEEHRDKFPALHSALDEFFDIMDSRCTVLRKQDSGEAPFSSTKVKNKSKKKKPKDSKPMLVGSGTTSVTSNNEII  
TSSDHNRNSDSAGPFAVPDHLRQDVEEF EALYDQHSNEYVVRNKKLWDMNPKQKCSTLYDYFSQFLEE HGPLD  
MSNKMFSAEYEFFPEETRQILEKAGGLKPFL LGCPRFVVIDNCIALKKVASRLKKKRKKKNIKTKVEEISKAGEY  
VRVKLQLNPAAREFKPDVKSKPVSDSSAPAFENVKPKVPSANSPK PAVEDVKAKPVSDN SSRQVSEDGQPKGVS  
SNSPKPGSEDANYKRVSCNSPKPVLEDVKPTYWAQSHLVTGYCTYLPFQRFDITQTPPAYINVLPLGPYTSIYT  
PLASLSPEYQLPRSVPVVPSFVANDRADKNAAAYFEGHHLNAENVAGHQIASETQILEGSLGISVKSHCSTGDAH  
TVLSESNRND EHCNSNNKCEVIPESTSAVTNIPHVQMVAIQVSWNI IHQEVNTEPYNPFEE RQGEISRIEKEHQ  
VLQDQLQEVYENYEQIKLKGLEETRDL EEKLRHLEENKISKTELDWFLQDLEREIKKWQ QEKKEIQERLKS LKK  
KIKKVSNASEMYTQKNDGKEKEHELHLDQSLEISNTLTNEKMKIEEYIKKGKEDYEESHQRAVAAEVSVLENWKE  
SEVYKLQIMESQAEAF LKKLGLISRDPAAYPDMESDIRSWELFLSNVTKEIEKAKSQFEEQIKAIKNGSRLSELS  
KVQISELSFPACNTVHPELLPESSGHDGQGLVTSASDVTGNHAALHRDPSVFSAGDSPGEAPSALLPGPPPGQPE  
ATQLTGPKRAGQAALSERSPVADRKQPVPPGRAARSSQSPKKPFNSIIEHLSVVFPCYNSTELAGFIKKVRSKNK  
NSLSGLSIDEIVQRVTEHILDEQKKKKPNPGDKR TYEPSSATPVTRSSQGS PSVVVAPSPKTKGQKAEDVPVRI  
ALGASSCEICHEVFKSKNVRVLKCGHKYHKGCFKQWLKGQSACPACQGRD

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**FIGURE 1295**

GTTCTTGCCTGGTGTCTGGTGGTTAGTTTCTGCGACTTGTGTTGGGACTGCTGATAGGAAGATGTCTTCAGGAAAT  
GCTAAAATTGGGCACCCCTGCCCCAACTTCAAAGCCACAGCTGTTATGCCAGATGGTCAGTTTAAAGATATCAGC  
CTGTCTGACTACAAAGGAAAATATGTTGTGTTCTTCTTTTACCCTCTTGACTTCACCTTTGTGTGCCCCACGGAG  
ATCATTGCTTTCAGTGATAGGGCAGAAGAATTTAAGAACTCAACTGCCAAGTGATTGGTGCTTCTGTGGATTCT  
CACTTCTGTCTAGCATGGGTCAATACACCTAAGAAACAAGGAGGACTGGGACCCATGAACATTCTTTGGTA  
TCAGACCCGAAGCGCACCATTGCTCAGGATTATGGGGTCTTAAAGGCTGATGAAGGCATCTCGTTCAGGGGCCTT  
TTTATCATTGATGATAAGGGTATTCTTCGGCAGATCACTGTAAATGACCTCCCTGTTGGCCGCTCTGTGGATGAG  
ACTTTGAGACTAGTTCAGGCCTTCCAGTTCAGTACAAACATGGGGAAGTGTGCCAGCTGGCTGGAAACCTGGC  
AGTGATAACCATCAAGCCTGATGTCCAAAAGAGCAAAGAATATTTCTCCAAGCAGAAGTGAGCGCTGGGCTGTTTT  
AGTGCCAGGCTGCGGTGGGCAGCCATGAGAACAAAACCTCTTCTGTATTTTTTTTTTCCATTAGTAAAACACAAG  
ACTTCAGATTCAGCCGAATTGTGGTGTCTTACAAGGCAGGCCTTTCCTACAGGGGGTGGAGAGACCAGCCTTCT  
TCCTTTGGTAGGAATGGCCTGAGTTGGCGTTGTGGGCAGGCTACTGGTTTGTATGATGTATTAGTAGAGCAACCC  
ATTAATCTTTGTAGTTTGTATTAACTTGAAC TGAG

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**FIGURE 1296**

MSSGNAKIGH PAPNFKATAVMPDGQFKDISLS DYKGKYV VFFFYPLDFTFVCPT EIIAFSDRAEEFKKLNCQVIG  
ASVDSHFCHLAWVNTPKKQGGLGPMNIPLVSDPKRTIAQDYGV LKADEGISFRGLFIIDDKGILRQITVNDLPVG  
RSVDETLRLVQAFQFTDKHGEVCPAGWKPGSDTIKPDVQKSKEYFSKQK



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**FIGURE 1297**

GGCACGAGGGAGAGAGAACTAGTCTCGAGTTTTTTTTTTTTTTTTTGTGCAGGTAGGAAATGTCTTTATTATTGG  
CCTTGAGTCATCATGTAGTGTCTGACATAGGTTACGTGTCCAGAGGATCTGCCTGGCACACGCTAGCTACCCCTG  
CCCCTGGAGCAGCCCCTCTGGCCGACGCCAGGCCCTTTGTCCATCATGCCAGGGAAGCCAACCCACCATCCCAC  
AAGTTCATGCTAGGGGTGCTGAGGAACAAGGCTGTCTAGGATTGGACCCTCCATCCTGGACAGGGGTCTGGGG  
AGGATGAGGCTGAGGCCTGGATGATCAGTCTCTTTTGGTTTCATGATCATTATAAAAAACAGAAAAGACAAACAT  
TTCACAGTCTTTAAAAAATAGAAGTCTGAGGAGAGAAGCCAGAGTCCCTGGGCCCCGGGAGGCCCCCTCGAGGCCTC  
AGCATTCCCTGTCCCTTGAGGTCTGTCTGCAGGCCTGGCCACAGCACACGTGGCCCGTTATTGGAGCCAGGCCTA  
CACCCCAGCAACCATGTCCAAGGGACCTGCAGTTGGTATTGATCTTGGCACCACCTACTCTTGTGTGGGTGTTTT  
CCAGCACGGAAGTTCGAGATAATTGCCAATGATCAGGGAAACCGAACCCTCCAAGCTATGTGCCTTTACGGA  
CACTGAACGGTTGATCGGTGATGCCGCAAAGAATCAAGTTGCAATGAACCCACCAACACAGTTTTTGATGCCAA  
ACGTCTGATTGGACGCAGATTTGATGATGCTGTTGTCCAGTCTGATATGAAACATTGGCCCTTTATGGTGGTGAA  
TGATGCTGGCAGGCCCAAGGTCCAAGTAGAATAACAAGGGAGAGACCAAAAGCTTCTATCCAGAGGAGGTGTCTTC  
TATGGTTCTGACAAAGATGAAGGAAATTGCAGAAGCCTACCTTGGGAAGACTGTTACCAATGCTGTGGTCACAGT  
GCCAGCTTACTTTAATGACTCTCAGCGTCAGGCTACCAAAGATGCTGGAATATTGCTGGTCTCAATGTACTTAG  
AATTATTAATGAGCCAAGTCTGTCTGCTATTGCTTACGGCTTAGACAAAAAGGTTGGAGCAGAAAGAAACGTGCT  
CATCTTTGACCTGGGAGGTGGCACTTTTGATGTGTCAATCCTCACTATTGAGGATGGAATCTTTGAGGTCAAGTC  
TACAGCTGGAGACACCCACTTGGGTGGAGAAGATTTTGACAACCGAATGGTCAACCATTTTATTGCTGAGTTTAA  
GCGCAAGCATAAGAAGGACATCAGTGAGAACAAGAGAGCTGTAAGACGCCTCCGTACTGCTTGTGAACGTGCTAA  
GCGTACCCTCTCTTCCAGCACCCAGGCCAGTATTGAGATCGATTCTCTCTATGAAGGAATCGACTTCTATACCTC  
CATTACCCGTGCCCCGATTTGAAGAACTGAATGCTGACCTGTTCCGTGGCACCCCTGGACCCAGTAGAGAAAGCCCT  
TCGAGATGCCAACTAGACAAGTCACAGATTCATGATATTGTCCTGGTTGGTGGTTCTACTCGTATCCCCAAGAT  
TCAGAAGCTTCTCCAAGACTTCTTCAATGGAAAAGAACTGAATAAGAGCATCAACCCTGATGAAGCTGTTGCTTA  
TGGTGCAGCTGTCCAGGCAGCCATCTTGTCTGGAGACAAGTCTGAGAATGTTCAAGATTTGCTGCTCTTGGATGT  
CACTCCTCTTTCCCTTGGTATTGAAACTGCTGGTGGAGTCATGACTGTCTCATCAAGCGTAATACCACCATTCC  
TACCAAGCAGACACAGACCTTCACTACCTATTCTGACAACCAGCCTGGTGTGCTTATTAGGTTTATGAAGGCGA  
GCGTGCCATGACAAAGGATAACAACCTGCTTGGCAAGTTTGAAGTCACAGGCATACCTCCTGCACCCCGAGGTGT  
TCCTCAGATTGAAGTCACTTTTGACATTGATGCCAATGGTATACTCAATGTCTCTGCTGTGGACAAGAGTACGGG  
AAAAGAGAACAAGATTACTATCACTAATGACAAGGGCCGTTTGAGCAAGGAAGACATTGAACGTATGGTCCAGGA  
AGCTGAGAAGTACAAAGCTGAAGATGAGAAGCAGAGGGACAAGGTGTCATCCAAGAATTCATTGAGTCTATGC  
CTTCAACATGAAAGCAACTGTTGAAGATGAGAACTTCAAGGCAAGATTAACGATGAGGACAAACAGAAGATTCT  
GGACAAGTGTAATGAAATTATCAACTGGCTTGATAAGAATCAGACTGCTGAGAAGGAAGAATTTGAACATCAACA  
GAAAGAGCTGGAGAAAGTTTGCAACCCCATCATCACCAAGCTGTACCAGAGTGCAGGAGGCATGCCAGGAGGAAT  
GCCTGGGGGATTTCTGGTGGTGGAGCTCCTCCCTCTGGTGGTGTCTCCTCAGGGCCCACCATTGAAGAGGTTGA  
TAAGCCAACCAAGTGTAGATGTAGCATTGTTCCACACATTTAAAACATTTGAAGGACCTAAATTCGTAGCAAAAT  
TCTGTGGCAGTTTTAAAAAGTTAAGCTGCTATAGTAAGTTACTGGGCATTCTCAATACTTGAATATGGAACATAT  
GCACAGGGGAAGGAAATAACATTGCACTTTATAAACACTGTATTGTAAGTGGAATGCAATGTCTTAAATAAAA  
CTATTTAAATTGGCACCATAAAAA

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**FIGURE 1298**

MSKGPAVGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVAMNPTNTVFDKRLIG  
RRFDDAVVQSDMKHWPFMVVNDAGRPKVQVEYKGETKSFYPEEVSSMVLTKMKEIAEAYLGKTVTNAVVTVPAYF  
NDSQRQATKDAGTIAGLNVLRIINEPTAAAIAYGLDKKVGAEARNVLIFDLGGGTFDVSILTIEDGIFEVKSTAGD  
THLGGEDFDNRMVNHFIAEFKRKHKKDISENKRAVRRLRTACERAKRTLSSSTQASIEIDSLYEGIDFYTSITRA  
RFEELNADLFRGTLDPVEKALRDAKLDKSQIHDIVLVGGSTRIPKIQKLLQDFFNGKELNKSINPDEAVAYGAAV  
QAAILSGDKSENVQDLLLLLDVTPLSLGIETAGGVMTVLIKRNTTIPTKQTQTFTTYSNQPGLIQVYEGERAMT  
KDNLLGKFELTGIPPAPRGVPQIEVTFDIDANGILNVSADVKGSTGKENKITITNDKGRLSKEDIERMVQEAKEY  
KAEDEKQRDKVSSKNSLESYAFNMKATVEDEKLQGKINDEDKQKILDKCNEIINWLDKNQTAEKEEFEHQKELE  
KVCNPIITKLYQSAGGMPGGMPGGFPGGGAPPSSGASSGPTIEEVD

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**FIGURE 1299A**

CGGGTGGCGGCTCGGGACGGAGGACGCGCTAGTGTTCTTCTGTGTGGCAGTTCAGAAATGATGGATCAAGCTAGAT  
CAGCATTCTCTAACTTGTGTTGGTGGAGAACCATTGTTCATATACCCGGTTTCAGCCTGGCTCGGCAAGTAGATGGCG  
ATAACAGTCATGTGGAGATGAAACTTGCTGTAGATGAAGAAGAAAATGCTGACAATAACACAAAAGCCAATGTCA  
CAAAACCAAAAAGGTGTAGTGGAAAGTATCTGCTATGGGACTATTGCTGTGATCGTCTTTTTCTTGATTGGATTTA  
TGATTGGCTACTTGGGCTATTGTAAAGGGGTAGAACCAAAACTGAGTGTGAGAGACTGGCAGGAACCGAGTCTC  
CAGTGAGGGAGGAGCCAGGAGAGGACTTCCCTGCAGCACGTCGCTTATATTGGGATGACCTGAAGAGAAAGTTGT  
CGGAGAACTGGACAGCACAGACTTCACCGGCACCATCAAGCTGCTGAATGAAAATTCATATGTCCCTCGTGAGG  
CTGGATCTCAAAAAGATGAAAATCTTGCGTTGTATGTTGAAAATCAATTTTCGTGAATTTAAACTCAGCAAAGTCT  
GGCGTGATCAACATTTTGTAAAGATTACAGGTCAAAGACAGCGCTCAAACTCGGTGATCATAGTTGATAAGAACG  
GTAGACTTGTGTTACCTGGTGGAGAATCCTGGGGGTTATGTGGCGTATAGTAAGGCTGCAACAGTTACTGGTAAAC  
TGGTCCATGCTAATTTTGGTACTAAAAAGATTTTGGAGATTTATACACTCCTGTGAATGGATCTATAGTGATTG  
TCAGAGCAGGGAATACCTTTGCAGAAAAGGTTGCAATGCTGAAAGCTTAAATGCAATTGGTGTGTTGATAT  
ACATGGACCAGACTAAATTTCCCATTTGTTAACGCAGAACTTTTATTCTTTGGACATGCTCATCTGGGGACAGGTG  
ACCTTTACACACCTGGATTCCCTTCCTTCAATCACACTCAGTTTCCACCATCTCGGTGATCAGGATTGCCTAATA  
TACCTGTCCAGACAATCTCCAGAGCTGCTGCAGAAAAGCTGTTTGGGAATATGGAAGGAGACTGTCCCTCTGACT  
GGAAAACAGACTCTACATGTAGGATGGTAACCTCAGAAAGCAAGAATGTGAAGCTCACTGTGAGCAATGTGCTGA  
AAGAGATAAAAATTCTTAACATCTTTGGAGTTATTAAAGGCTTTGTAGAACCAGATCACTATGTTGTAGTTGGGG  
CCCAGAGAGATGCATGGGGCCCTGGAGCTGCAAAATCCGGTGTAGGCACAGCTCTCCTATTGAAACTTGCCCA  
TGTTCTCAGATATGGTCTTAAAGATGGGTTTCAGCCCAGCAGAAGCATTATCTTTGCCAGTTGGAGTGCTGGAG  
ACTTTGGATCGGTTGGTGCCACTGAATGGCTAGAGGGATACCTTTTCGTCCCTGCATTTAAAGGCTTTCACTTATA  
TTAATCTGGATAAAGCGGTTCTTGGTACCAGCAACTTCAAGGTTTCTGCCAGCCACTGTTGTATACGCTTATTG  
AGAAAACAATGCAAAATGTGAAGCATCCGGTTACTGGGCAATTTCTATATCAGGACAGCAACTGGGCCAGCAAAG  
TTGAGAACTCACTTTAGACAATGCTGCTTTCCCTTTCTTGCATATTCTGGAATCCCAGCAGTTTCTTTCTGTT  
TTTTCGAGGACACAGATTATCCTTATTTGGGTACCACCATGGACACCTATAAGGAAGTATTGAGAGGATTCCTG  
AGTTGAACAAAGTGGCACGAGCAGCTGCAGAGGTCGCTGGTCAGTTCGTGATTAAACTAACCCATGATGTTGAAT  
TGAACCTGGACTATGAGAGGTACAACAGCCAACCTGCTTTTATTGTTGAGGGATCTGAACCAATACAGAGCAGACA  
TAAAGGAAATGGGCCTGAGTTTACAGTGGCTGTATTCTGCTCGTGGAGACTTCTTCCGTGCTACTTCCAGACTAA  
CAACAGATTTTCGGGAATGCTGAGAAAACAGACAGATTTGTTCATGAAGAACTCAATGATCGTGTTCATGAGAGTGG  
AGTATCACTTCTCTCTCCCTACGTATCTCCAAAAGAGTCTCCTTTCCGACATGTCTTCTGGGGCTCCGGCTCTC  
ACACGCTGCCAGCTTTACTGGAGAACTTGAACTGCGTAAACAAAATAACGGTGCTTTTAAATGAAACGCTGTTCA  
GAAACCAGTTGGCTCTAGCTACTTGGACTATTACGGGAGCTGCAATGCCCTCTCTGGTGACGTTTGGGACATTG  
ACAATGAGTTTAAATGTGATACCCATAGCTTCCATGAGAACAGCAGGGTAGTCTGGTTTCTAGACTTGTGCTGA  
TCGTGCTAAATTTTTCAGTAGGGCTACAAAACCTGATGTTAAATTTCCATCCCATCATCTTGGTACTACTAGATGT  
CTTTAGGCAGCAGCTTTTAAATACAGGGTAGATAACCTGTACTTCAAGTTAAAGTGAATAACCACTTAAAAATGT  
CCATGATGGAATATTTCCCTATCTCTAGAATTTTAAAGTGCTTTGTAAATGGGAAGTGCCTCTTTCTGTTGTTGTT  
AATGAAAATGTCAGAAACAGTTATGTGAATGATCTCTGTAATCCTAAGGGCTGGTCTCTGCTGAAGGTTGTAA  
GTGGTGCCTTACTTTGAGTGATCCTCCAACCTTCAATTTGATGCTAAATAGGAGATACCAGGTTGAAAGACCTTCTC  
CAAAATGAGATCTAAGCCTTTCCATAAGGAATGTAGCTGGTTTCCTCATTCCTGAAAGAAACAGTTAACTTTCAGA  
AGAGATGGGCTTGTGTTTCTTGCCAATGAGGTCTGAAATGGAGGTCCTTCTGCTGGATAAAATGAGGTTCAACTGT  
TGATTGCAGGAATAAGGCCTTAATATGTTAACTCAGTGTCATTTATGAAAAGAGGGGACCAGAAGCCAAAGACT  
TAGTATATTTTCTTTTCTCTGTCCCTTCCCCCATAAGCCTCCATTTAGTTCTTTGTTATTTTTGTTTCTTCCAA  
AGCACATTGAAAGAGAACCAGTTTTCAGGTGTTTAGTTGCAGACTCAGTTTGTGAGACTTTAAAGAATAATATGCT  
GCCAAATTTTGGCCAAAGTGTTAATCTTAGGGGAGAGCTTTCTGTCTTTTGGCACTGAGATATTTATTGTTTAT  
TTATCAGTGACAGAGTTCACTATAAATGGTGTGTTTTTAAATAGAATATAATTATCGGAAGCAGTGCCCTTCCATAA  
TTATGACAGTTTACTGTGGTTTTTTTTTAAATAAAAGCAGCATCTGCTAATAAAACCCAACAGATACTGGAAGT  
TTTGCAATTTATGGTCAACACTTAAAGGGTTTTAGAAAACAGCCGTGAGCCAAATGTAATTGAATAAAGTTGAAGCT  
AAGATTTAGAGATGAATTAATTTAATTAGGGGTTGCTAAGAAGCGAGCACTGACCAGATAAGAATGCTGGTTTT  
CCTAAATGCAGTGAATTGTGACCAAGTTATAAATCAATGTCACTTAAAGGCTGTGGTAGTACTCCTGCAAAATTT

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**FIGURE 1299B**

TATAGCTCAGTTTATCCAAGGTGTAACCTCTAATTCCCATTTTGCAAAATTTCCAGTACCTTTGTCACAATCCTAA  
CACATTATCGGGAGCAGTGTCTTCCATAATGTATAAAGAACAAGGTAGTTTTTACCTACCACAGTGTCTGTATCG  
GAGACAGTGATCTCCATATGTTTACACTAAGGGTGTAAGTAATTATCGGGAACAGTGTTCCTATAATTTCTTCA  
TGCAATGACATCTTCAAAGCTTGAAGATCGTTAGTATCTAACATGTATCCCAACTCCTATAATTCCTATCTTTT  
AGTTTTAGTTGCAGAAACATTTTTGTGGTCATTAAGCATTGGGTGGGTAAATTCAACCACTGTAAAATGAAATTAC  
TACAAAATTTGAAATTTAGCTTGGGTTTTTGTACCTTTATGGTTTCTCCAGGTCCTCTACTTAATGAGATAGTA  
GCATACATTTATAATGTTTGCTATTGACAAGTCATTTTAACTTTATCACATTATTTGCATGTTACCTCCTATAAA  
CTTAGTGCGGACAAGTTTTAATCCAGAATTGACCTTTTGACTTAAAGCAGGGGGACTTTGTATAGAAGGTTTGGG  
GGCTGTGGGGAAGGAGAGTCCCTGAAGGTCTGACACGTCTGCCTACCCATTTCGTGGTGATCAATTAAATGTAGG  
TATGAATAAGTTCGAAGCTCCGTGAGTGAACCATCATTATAAACGTGATGATCAGCTGTTTGTATAGGGCAGTT  
GGAAACGGCCTCCTAGGGAAAAGTTCATAGGGTCTCTTCAGGTTCTTAGTGTCACCTACCTAGATTTACAGCCTC  
ACTTGAATGTGTCACTACTCACAGTCTCTTTAATCTTCAGTTTTATCTTTAATCTCCTCTTTTATCTTGGACTGA  
CATTTAGCGTAGCTAAGTGAAAAGGTCATAGCTGAGATTCCTGGTTCGGGTGTTACGCACACGTACTTAAATGAA  
AGCATGTGGCATGTTTCATCGTATAACACAATATGAATACAGGGCATGCATTTTGCAGCAGTGAGTCTCTTCAGAA  
AACCCTTTTCTACAGTTAGGGTTGAGTTACTTCCTATCAAGCCAGTACGTGCTAACAGGCTCAATATTCTCTGAAT  
GAAATATCAGACTAGTGACAAGCTCCTGGTCTTGAGATGTCTTCTCGTTAAGGAGATGGGCCTTTTGGAGGTAAA  
GGATAAAATGAATGAGTTCTGTTCATGATTCACTATTCTAGAACTTGCATGACCTTTACTGTGTTAGCTCTTTGAA  
TGTTCTTGAAATTTTAGACTTTCTTTGTAAACAAATAATATGTCCTTATCATTGTATAAAAGCTGTTATGTGCAA  
CAGTGTGGAGATTCCTTGTCTGATTTAATAAAATACTTAAACACTGAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1300**

MMDQARSASF SNLFGGEPLSYTRFSLARQVDGDNSHVEMKLAVDEEENADNNTKANVT KPKRCSGSICYGTIAVIV  
FFLIGFMIGYLG YCKGVEPKTECERLAGTESPVREEPGEDFPAARRLYWDDLKRKLSEKLDSTDFTGTIKLLNEN  
SYVPREAGSQKDENLALYVENQFREFKLSKVWRDQHFVKIQVKDSAQNSV IIVDKNGRLVYLVENPGGYVAYS KA  
ATVTGKLVHANFGTKKDFEDLYTPVNGSIVIVRAGKITFAEKVANAESLNAIGVLIYMDQTKFPIVNAELSFFGH  
AHLGTGDPYTPGFPSFNHTQFPSPRSSGLPNIPVQTI SRAAAEKLFGNMEGDCPSDWKTDSTCRMVTSESKNVKL  
TVSNVLKEIKILNIFGVIKGFVEPDHYVVVGAQRDAWGPGAAKSGVGTALLLKL AQMFSDMVLKDGFPQRSIIF  
ASWSAGDFGSGV GATEWLEGYLSSLHLKAFTYINLDKAVLGTSNFKVSASPLLYTLIEKTMQNVKHPVTGQFLYQD  
SNWASKVEKLTLDNAAFPFLAYSGIPAVSFCFCEDTDYPYLGTTMDTYKELIERIPELNKVARAAAEVAGQFVIK  
LTHDVELNLDYERYNSQLLSFVRDLNQYRADIKEMGLSLQWLYSARGDFFRATSRLTTDFGNAEKTD RFVMKKLN  
DRVMRVEYHFLSPYVSPKESPFRRHVFWGSGSHTLPALLENLKL RKQNNGAFNETLFRNQLALATWTIQGAANALS  
GDVWDIDNEF

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**FIGURE 1301**

GTCACTCGTATAAAAACCTATGCTTTGAAGGTTCTCGTGTGTCTCGGCCTGCAGGTCTCGCTCAGAGCTGTGTCC  
CTGAACATCCACCCTGCTGGGGTGGCTTGACGCACTTCTGTGCAAATCTGTTTCGCTCGCAACCCTACCTACCTCT  
CTCCCGAACCGGAGAAAAACCTTCGGCGGGGTCTTCCGGGTTTTGTGTGCAATCTGCGGGCGGACCCGGCGCCG  
CGTCACGCGGTGGTGAATGTGCGGCAGTACGCGCGCCGCTCGTTTTACGCGGCGATTTCATCATGCTCCGAGCCG  
GCGGCGCGCGCCGCTTCCGTGCGCACCCCTCTCTGGACAGCCCAGGGCCGCGAGGCTCATGCCCTCTCCGCGTCCAG  
TGCTGCTTAGAGGTGCTCGCGCCGCTCTGCTGCTGCTGCTGCCGCCCGGCTCTTAGCCCGACCCCTCGCTCCTCC  
TCCGCCGGTCCCTCAGCGCGGCTCCTGCGCCCCGATCTCCTTGCCCGCCGCGCCTCCCGGAGCAGC**ATCG**GACG  
GCGCGGGGGCTGAGGAGGTGCTGGCACCTCTGAGGCTAGCAGTGCGCCAGCAGGGAGATCTTGTGCGAAAACCTCA  
AAGAAGATAAAGCACCCCAAGTAGACGTAGACAAAGCAGTGGCTGAGCTCAAAGCCCGCAAGAGGGTTCTGGAAG  
CAAAGGAGCTGGCGTTACAGCCCAAAGATGATATTGTAGACCGAGCAAAAATGGAAGATACCCTGAAGAGGAGGT  
TTTTCTATGATCAAGCTTTTGCTATTTATGGAGGTGTTAGTGGTCTGTATGACTTTGGGCCAGTTGGCTGTGCTT  
TGAAGAACAATATTATTAGACCTGGAGGCAGCACTTTATCCAAGAGGAACAGATCCTGGAGATCGATTGCACCA  
TGCTCACCCCTGAGCCAGTTTTAAAGACCTCTGGCCATGTAGACAAATTTGCTGACTTCATGGTGAAAGACGTAA  
AAAAATGGAGAATGTTTTCTGTGCTGACCATCTATTAAGCTCATTTACAGAAATTGATGTCTGATAAGAAAGTGT  
CTGTGCAAAAGAAATCAGAAATGGAAGTGTGTTGGCCAGCTTGATAACTATGGACAGCAAGAACTTGCGGATC  
TTTTTGTAAGTATAATGTAAATCTCCATTACTGGAAATGATCTATCCCTCCAGTGTCTTTAACTTAATGT  
TCAAGACTTTTATTGGGCTGGAGGAAACATGCCTGGGTACTTGAGACCAGAACTGCACAGGGGATTTTTCTTGA  
ATTTCAAACGACTTTTGAGTTCAACCAAGGAAAGTTGCCTTTTGCTGCTGCCAGATTGGAAATCTTTTAGAA  
ATGAGATCTCCCTCGATCTGGACTGATCAGAGTCAGAGAATTCACAATGGCAGAAATTGAGCACTTTGTAGATC  
CCAGTGAGAAAGACCACCCCAAGTTCCAGAATGTGGCAGACCTTCACCTTTATTTGTATTTCAGCAAAAAGCCAGG  
TCAGCGGACAGTCCGCTCGGAAAATGCGCCTGGGAGATGCTGTTGAACAGGGTGTGATTAATAACACAGTATTAG  
GCTATTTTATTGGCCGATCTACCTCTACCTCACGAAGGTTGGAATATCTCCAGATAAACTCCGCTTCCGGCAGC  
ACATGGAGAATGAGATGGCCATTATGCCTGTGACTGTTGGGATGCAGAATCCAAAACATCCTACGGTTGGATTG  
AGATTGTTGGATGTGCTGATCGTTTCTGTTATGACCTCTCCTGTGATGCACGAGCCACCAAAGTCCCACTTGTAG  
CTGAGAAAACCTCTGAAAGAACCCAAAACAGTCAATGTTGTTTCAAGTTTGAACCCAGTAAGGGAGCAATTGGTAAGG  
CATATAAGAAGGATGCAAACTGGTGATGGAGTATCTTGCCATTTGTGATGAGTGCTACATTACAGAAATGGAGA  
TGCTGCTGAATGAGAAAGGGGAATTCACAATTGAACTGAAGGGAAAACATTTTCAAGTTAACAAAAGACATGATCA  
ATGTGAAGAGATTCCAGAAAACACTATATGTGGAAGAAGTTGTTCCGAATGTAATTGAACCTTCCCTCGGCCTGG  
GTAGGATCATGTATACGGTATTTGAACATACATTCCATGTACGAGAAGGAGATGAACAGAGAACATTCTTCAGTT  
TCCCTGCTGTAGTTGCTCCATTCAAATGTTCCGTCTCCCACTGAGCCAAAACCAGGAGTTTATGCCATTTGTCA  
AGGAATTATCGGAAGCCCTGACCAGGCATGGAGTATCTCACAAAGTAGACGATTCTCTGGGTCAATCGGAAGGC  
GCTATGCCAGGACTGATGAGATTGGCGTGGCTTTTGGTGTACCATTTGACTTTGACACAGTGAACAAGACCCCC  
ACACTGCAACTCTGAGGGACCGTGACTCAATGCGGCAGATAAGAGCAGAGATCTCTGAGCTGCCCAGCATAGTCC  
AAGACCTAGCCAATGGCAACATCACATGGGCTGATGTGGAGGCCAGGTATCCTCTGTTTGAAGGGCAAGAGACTG  
GTAAAAAAGAGACAATCGAGGAAT**TGAGG**ACAATTTTGACAACCTTTTGACCACTTGCCTAATAAAAAAAAAAAAA  
CTACTCTTATGTCCACTTTACAAAAGAAAACAGCATTGTGATTACTCCAGGGACCGTATTTTATCTTCAGTGGC  
TGCTGATTTTACCCCAACAATTAAAGTTGAAGGAATCCTGA

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**FIGURE 1302**

MDGAGAEVLAPLRLAVRQQGDLVRKLKEDKAPQVDVDKAVAEKARKRVLEAKELALQPKDDIVDRAKMEDTLK  
RRFFYDQAFAIYGGVSGLYDFGPVGCALKNNIIQTWRQHFIQEEQILEIDCTMLTPEPVLKTSGHVDKFADFMVK  
DVKNGECEFRADHLLKAHLQKLMSDKKCSVEKKSEMESVLAQLDNYGQELADLFVNYNVKSPITGNDLSPPVSFN  
LMFKTFIGPGGNMPGYLRPETAQGIFLNFKRLLEFNQKLPFAAAQIGNSFRNEISPRSGLIRVREFTMAEIEHF  
VDPSEKDHPKFQNVADLHLYLYSAKAQVSGQSARKMRLGDAVEQGVINNTVLGYFIGRIYLYLTKVGISPDKLRF  
RQHMENEMAHYACDCWDAESKTSYGWIEIVGCADRSCYDLSCHARATKVPLVAEKPLKEPKTVNVVQFEPSKGAI  
GKAYKKDAKLVMEYLAICDECYITEMEMLLNEKGFTIETEGKTFQLTKDMINVKRFQKTLYVEEVVENVIEPSF  
GLGRIMYTVFEHTFHVREGDEQRTFFSFPAVVAPFKCSVLPLSQNQEFMPFVKELSEALTRHGVSHKVDDSSGSI  
GRRYARTDEIGVAFGVTIDFDTVNKTPHTATLDRDRDSMRQIRAEISELPSIVQDLANGNITWADVEARYPLFEGQ  
ETGKKEETIEE

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**FIGURE 1303**

CGGCAGCCCTCCTACCTGCGCACGTGGTGCCGCTGCTGCTGCCTCCCGCTCGCCCTGAACCCAGTGCCCTGCAGCC  
ATGGGCTCCCGGCCAGCTCGCCTTATTTAGTGTCTCTGACAAAACCGGCCTTGTGGAATTTGCAAGAAACCTGACC  
GCTCTTG GTTTGAATCTGGTCGCTTCCGGAGGGACTGCAAAAGCTCTCAGGGATGCTGGTCTGGCAGTCAGAGAT  
GTCTCTGAGTTGACGGGATTTCTGAAATGTTGGGGGGACGTGTGAAAACCTTTCATCCTGCAGTCCATGCTGGA  
ATCCTAGCTCGTAATATTCCAGAAGATAATGCTGACATGGCCAGACTTGATTTCAATCTTATAAGAGTTGTTGCC  
TGCAATCTCTATCCCTTTGTAAAGACAGTGGCTTCTCCAGGTGTAACCTGTTGAGGAGGCTGTGGAGCAAATTGAC  
ATTGGTGGAGTAACCTTACTGAGAGCTGCAGCCAAAAACACGCTCGAGTGACAGTGGTGTGTGAACCAGAGGAC  
TATGTGGTGGTGTCCACGGAGATGCAGAGCTCCGAGAGTAAGGACACCTCCTTGGAGACTAGACGCCAGTTAGCC  
TTGAAGGCATTCACTCATACGGCACAATATGATGAAGCAATTTTCAGATTATTTTCAGGAAACAGTACAGCAAAGGC  
GTATCTCAGATGCCCTTGAGATATGGAATGAACCCACATCAGACCCCTGCCAGCTGTACACACTGCAGCCCAAG  
CTTCCCATCACAGTTCTAAATGGAGCCCCCTGGATTTATAAACTTGTGCGATGCTTTGAACGCCTGGCAGCTGGTG  
AAGGAACCTCAAGGAGGCTTTAGGTATTCCAGCCGCTGCCTCTTTCAAACATGTCAGCCCAGCAGGTGCTGCTGTT  
GGAATTCCTCAGTGAAGATGAGGCCAAAGTCTGCATGGTTTATGATCTCTATAAAACCCCTCACACCCATCTCA  
GCGGCATATGCAAGAGCAAGAGGGGCTGATAGGATGTCTTCATTTGGTGATTTTGTTCATTGTCCGATGTTTGT  
GATGTACCAACTGCAAAAATTATTTCCAGAGAAGTATCTGATGGTATAATTGCCCCAGGATATGAAGAAGAAGCC  
TTGACAATACTTTCCAAAAAGAAAAATGGAACTATTGTGTCCTTCAGATGGACCAATCTTACAAACCAGATGAA  
AATGAAGTTCGAACTCTCTTTGGTCTTCATTTAAGCCAGAAGAGAAATAATGGTGTGTCGACAAAGTCATTATTT  
AGCAATGTTGTTACCAAAAATAAAGATTTGCCAGAGTCTGCCCTCCGAGACCTCATCGTAGCCACCATTGCTGTC  
AAGTACACTCAGTCTAACTCTGTGTGCTACGCCAAGAACGGGCAGGTTATCGGCATTGGAGCAGGACAGCAGTCT  
CGTATACACTGCACTCGCCTTG CAGGAGATAAGGCAAACCTATTGGTGGCTTAGACACCATCCACAAGTGCTTTTCG  
ATGAAGTTTAAACAGGAGTGAAGAGAGCAGAAATCTCCAATGCCATCGATCAATATGTGACTGGAACCATTGGC  
GAGGATGAAGATTTGATAAAGTGGAAGGCACTGTTTGAGGAAGTCCCTGAGTTACTCACTGAGGCAGAGAAGAAG  
GAATGGGTGAGAACTGACTGAAGTTTCTATCAGCTCTGATGCCTTCTTCCCTTTCCGAGATAACGTAGACAGA  
GCTAAAAGGAGTGGTGTGGCGTACATTGCGGCTCCCTCCGGTCTTGCTGCTGACAAAGTTGTGATTGAGGCCTGC  
GACGAACTGGGAATCATCCTCGCTCATAACGAACCTTCGGCTCTTCCACCACTGATTTTTACCACACACTGTTTTTT  
GGCTTGCTTATGTGTAGGTGAACAGTCACGCCTGAAACTTTGAGGATAACTTTTTAAAAAATAAAACAGTATCT  
CTTAAAAACAATGTTTTGATCTACATAAACATTGTAAAAATTTTCAATCACGCTTTTTTAACCTTTCTTACCACAAAA  
AAATGATAAGTGGGTGAAGTGATGGTTATGTTAATTAGCGTGC



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**FIGURE 1304**

MAPGQLALFSVSDKTGLVEFARNLTALGLNLVASGGTAKALRDAGLAVRDVSELTGFPEMLGGRVKTLLHPAVHAG  
ILARNIPEDNADMARLDFNLIRVVACNLYPFVKTVASPGVTVEEAVEQIDIGGVTLLRAAAKNHARVTVVCEPED  
YVVVSTEMQSSES KDTSL ETRRQLALKAFTHTAQYDEAISDYFRKQYSKGVSQMPLRYGMNPHQTPAQLYTLQPK  
LPITVLNGAPGFINLCDALNAWQLVKELKEALGIPAAASF KHVSPAGAAVGIPLSEDEAKVCMVYDLYKTLTPIS  
AAYARARGADRMSSFGDFVALSDVCDVPTAKIISREVSDGIIAPGYEEEEALTILSKKKNGNYCVLQMDQSYKPDE  
NEVRTLFGLHLSQKRNGVVDKSLFSNVVTKNKDLPESALRDLIVATIAVKYTQSNSVCYAKNGQVIGIGAGQQS  
RIHCTRLAGDKANYWWLRHHPQVLSMKFKTG VKRAEISNAIDQYVTGTIGEDEDLIKWKALFEEVPELLTEAEKK  
EWVEKLTEVSISSDAFFPFRDNVDRAKRSGVAYIAAPSGSAADKVVIEACDELGIILAHTNLRLFHH

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**FIGURE 1305**

AATTCGGGGGCGCTGGAGTTTGTGACATACGAGGTGACACCCCTCGAGTCACTTCCCTTCAACTCCAGCTGGAGC  
GCCTGCTTGGCTTTGGGTTTCGTTCTGCAGCCTTCGCCCCGCTCCTAGCCTCAGGGCCGGACTCCAGCGCAGAGCC  
CAGCCCAGCGCAGCCTGCCAGCAGCCACCCAGCCGCCAGCCGCCAGCCCCGCACGAAACCCGGCCAGAGCTTC  
CTAGCAGCCCGAGCCATGAACACCGAAATGTATCAGACCCCCATGGAGGTGGCGGTCTACCAGCTGCACAATTTT  
TCCATCTCCTTCTTCTCTTCTGCTTGGAGGGGATGTGGTTTTCCGTTAAGCTGGACAACAGTGCCTCCGGAGCC  
AGCGTGGTGGCCATAGACAACAAGATCGAACAGGCCATGGATCTGGTGAAGAATCATCTGATGTATGCTGTGAGA  
GAGGAGGTGGAGATCCTGAAGGAGCAGATCCGAGAGCTGGTGGAGAAGAAGTCCCAGCTAGAGCGTGAGAACACC  
CTGTTGAAGACCCTGGCAAGCCCAGAGCAGCTGGAGAAGTTCCAGTCTGTCTGAGCCCTGAAGAGCCAGCTCCC  
GAATCCCCACAAGTGCCCGAGGCCCTGGTGGTTCTGCGGTGTAAGTGGCTCTGTCTCAGGGTGGGCAGAGCCA  
CTAAACTTGTTTTACCTAGTTCTTTCCAGTTTGTTTTGGCTCCCCAAGCATCATCTCACGAGGAGAAGTTTACA  
CCTAGCACAGCTGGTGCCAAGAGATGTCTTAAGGACATGGCCACCTGGGTCCACTCCAGCGACAGACCCCTGACA  
AGAGCAGGTCTCTGGAGGCTGAGTTGCATGGGGCCTAGTAACACCAAGCCAGTGAGCCTCTAATGCTACTGCGCC  
CTGGGGGCTCCCAGGGCCTGGGCAACTTAGCTGCAACTGGCAAAGGAGAAGGGTAGTTTGAGGTGTGACACCAGT  
TTGCTCCAGAAAGTTTAAGGGTCTGTTTCTCATCTCCATGGACATCTTCAACAGCTTCACCTGACAACGACTGT  
TCCTATGAAGAAGCCACTTGTGTTTTAAGCAGAGGCAACCTCTCTCTTCTCCTCTGTTTCGTGAAGGCAGGGGAC  
ACAGATGGGAGAGATTGAGCCAAGTCAGCCTTCTGTTGGTTAATATGGTATAATGCATGGCTTTGTGCACAGCCC  
AGTGTGGGATTACAGCTTTGGGATGACCGCTTACAAAGTTCTGTTTGGTTAGTATTGGCATAGTTTTTCTATATA  
GCCATAAATGCGTATATATACCCATAGGGCTAGATCTGTATCTTAGTGTAGCGATGTATACATATACACATCCAC  
CTACATGTTGAAGGGCCTAACCAGCCTTGGGAGTATTGACTGGTCCCTTACCTCTTATGGCTAAGTCTTTGACTG  
TGTTCAATTTACCAAGTTGACCCAGTTTGTCTTTTAGGTTAAGTAAGAACTCGAGAGTAAAGGCAAGGAGGGGGGC  
CAGCCTCTGAATGCGGCCACGGATGCCTTGCTGCTGCAACCCCTTTCCCCAGCTGTCCACTGAAACGTGAAGTCCT  
GTTTTGAATGCCAAACCCACCATTCACTGGTGCTGACTACATAGAATGGGTTGAGAGAAGATCAGTTTGGGCTTC  
ACAGTGTCATTTGAAAAAGCGTTTTTGTGTTTTGTTTTGAATTATTGTGGAAAACCTTCAAGTGAACAGAAGGATGG  
TGTCTACTGTGGATGAGGGATGAACAAGGGGATGGCTTTGATCCAATGGAGCCTGGGAGGTGTGCCCAGAAAGC  
TTGTCTGTAGCGGGTTTTGTGAGAGTGAACACTTTCCACTTTTTGACACCTTATCCTGATGTATGGTTCCAGGAT  
TTGGATTTTGATTTTCCAAATGTAGCTTGAAATTTCAATAAACTTTGCTCTGTTTTTCTAAAAAATAAAAA

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**FIGURE 1306**

MNTEMYQTPMEVAVYQLHNFSISFFSSLLGGDVSVKLDNSASGASVVAIDNKIEQAMD LVKNHLMYAVREEVEI  
LKEQIRELVEKNSQLERENTLLKTLASPEQLEKFQSCLSP EEPAPESPQVPEAPGGS AV

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**FIGURE 1307**

TTAAGGCAGGGGCTGATATAGAACTTGGCTGCTCCACACCTCTGATGGAGGCATCTCAGGAGGGACACCTGGAAT  
TGGTTAAATATTTGCTGGCTTCTGGCGCTAATGTGCATGCTACAACAGCAACAGGAGACACAGCCTTAACCTATG  
CTTGTGAAAATGGACATACGGATGTTGCAGATGTTTTACTTCAAGCAGGGGCTGATTTAGACAAGCAGGAGGACA  
TGAAGACTATTTTGGAGGGCATAGATCCGGCCAAGCATCAGGAACATGAATCTGAAGGTGGAAGAACACCTTTGA  
TGAAAGCTGCAAGAGCTGGTCATTTGTGCACTGTGCAGTTTCTTATTAGCAAAGGTGCCAATGTTAACAGGGCTA  
CAGCCAATAATGATCATACAGTAGTGTGCTGGCATGTGCAGGAGGCCACCTGGCAGTTGTTGAGCTTCTCTTGG  
CTCATGGGGCTGACCCTACTCATCGACTCAAGGATGGTTCAACAATGCTCATTGAAGCTGCAAAGGGTGGCCATA  
CTAATGTAGTTTCTTATCTGTTGGATTATCCAAATAATGTTCTGTGTCAGTTCCCACCACAGATGTGTCTCAGCTCC  
CTCCACCTTCTCAAGATCAGTCTCAGGAACCTGACAGAACTTCACAGGAGAACTCTCCTGCCCTTTTAGGAGTGC  
AAAAAGCTGTGAGTACCAGAGTGCCCACTGGTTCCAACAGTTCTTCTCAGACCACAGAGTGTCTTACACCTGAAT  
CCTGTTTCGCACTACAAGCAATGTGGCTTCCCAATCGATGCCCTCCTGTGTATCCTTCAGTTGACGTTGATGCAC  
ATACTGAGAGCAATCATGACACAGCATTAACTAGCTTGTGCAGGTGGTCATGAAGAACTTGTATCTGTGCTCA  
TTGCACGGGATGCCAAAATTGAACACAGAGACAAAAAGGTTTACACCCTAATCCTGGCAGCAACAGCAGGGC  
ATGTTGGAGTTGTTGAAATCCTTTTGGATAAAGGTGGAGATATAGAAGCACAGTCTGAACGAACCTAAGGATACTC  
CGCTTTCATTGGCATGTTCTGGTGGACGTCAGGAGGTGGTAGACTTGCTGCTGGCTCGAGGTGCAAATAAAGAAC  
ATAGGAACGTATCTGATTATACACCACTGAGTCTAGCTGCGTCTGGAGGATATGTTAATATCATTAAAGATTCTGC  
TTAATGCTGGGGCAGAAATTAATTCAAGGACTGGGAGTAACTAGGTATTTCTCCCCTGATGTTGGCTGCAATGA  
ATGGACATGTTCTGTCAGTAAATTTGCTGCTCGATATGGGTTTCAGACATTAATGCCCAAATAGAGACCAATCGGA  
ACACGGCTCTCACCTGGCCTGTTTCCAGGGCCGAGCAGAAGTAGTGAGTTTGCTTCTGGACCGAAAAGCCAATG  
TTGAACATAGGGCAAAGACGGGTCTTACCCCCTTGATGGAAGCAGCTTCTGGAGGGTATGCAGAGGTTGGAAGAG  
TTCTTCTTGATAAAGGAGCAGATGTTAATGCTCCCCCTGTGCCTTCTCAAGAGATACTGCTTTAACAATAGCAG  
CAGACAAAGGTCCTACAAATTTTGTGAACTCCTGATTATAGGGGAGCCACATTGATGTTTCGTAACAAAAAGG  
GAAATACGCCACTTTGGCTGGCATCCAATGGAGGTCATTTTGATGTTGTGCAGTTGCTAGTGCAAGCAGGTGCTG  
ATGTGGATGCAGCAGATAACCGGAAAATCACACCTCTTATGTCAGCATTTCGCAAGGGTCATGTAAAAGTTGTTT  
AATATTTGGTAAAGGAAGTAAATCAGTTCCCTTCTGATATAGAATGCATGAGATACATAGCAACAATTACAGATA  
AGGAACTGTTGAAAAATGTCATCAATGTGTGAAAACCATTTGTGAAGGCTAAAGACCAGCAAGCTGCGGAAGCAA  
ATAAGAATGCGAGTATTCTTTTAAAGGAACTTGATCTGGAAAAGTCAAGAGAAGAGAGCAGAAAGCAGGCTCTTG  
CTGCTAAAAAGAGAAAAAGAAAAGAGAAAAAAGAGAAAAAAGAGAAAAAAGAGAAAAAAGAGAAAAAAGAGAAAAA  
AA

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**FIGURE 1308**

MEASQEGHLELVKYLASGANVHATTATGDTALTYACENGHTDVADVLLQAGADLDKQEDMKTILEGIDPAKHQE  
HESEGGRTPLMKAARAGHLCTVQFLISKGANVNRATANNDHTVVSLACAGGHLAVVELLLAHGADPTHRLKDGST  
MLIEAAKGGHTNVVSYLLDYPNNVLSVPTTDDVSQLPPPSQDQSQEPDRTSQENSPALLGVQKAVSTRVPTGSNSS  
SQTTECLTPESCSQTTSNVASQSMPPVYPSVDVDAHTESNHDTALTACAGGHEELVSVLIARDAKIEHRDKKGF  
TPLILAATAGHVGVEILLDKGGDIEAQSERTKDTPLSLACSGGRQEVVDLLLARGANKEHRNVSDYTPLSLAAS  
GGYVNI IKILLNAGAEINSRTGSKLGISPLMLAAMNGHVPAVKLLLDMGSDINAQIETNRNTALTACFQGRAEV  
VSLLDRKANVEHRAKTGLTPLMEAASGGYAEVGRVLLDKGADVNPVPSSRDTALTIAADKGHYKFCELLIHR  
GAHIDVRNKKGNTPLWLASNGGHFDVVQLLVQAGADVDAADNRKITPLMSAFRKGHVQVQYLVKEVNQFSPDIE  
CMRYIATITDKELLKKCHQCVETIVKAKDQQAEEANKNASILLKELDLEKSREESRKQALAAKREKRKEKRKKKK  
KKKKKKKKKK

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**FIGURE 1309**

ATGGCGCTTGCCAGCGTGTTGGAGAGACCGCTACCGGTGAACCAGCGCGGGTTTTTCGGACTTGGGGGTCGTGCA  
GATCTGCTGGATCTAGGTCCAGGGAGTCTCAGTGATGGTCTGAGCCTGGCCGCGCCAGGCTGGGGTGTCCCAGAA  
GAGCCAGGAATCGAAATGCTTCATGGAACAACCACCTGGCCTTCAAGTTCGCCATGGAGTCATAGTTGCAGCT  
GACTCCAGGGCTACAGCGGGTGCTTACATTGCCTCCCAGACGGTGAAGAAGGTGATAGAGATCAACCCATACCTG  
CTAGGCACCATGGCTGGGGGCGCAGCGGATTGCAGCTTCTGGGAACGGCTGTTGGCTCGGCAATGTCGAATCTAT  
GAGCTTCGAAATAAGGAACGCATCTCTGTAGCAGCTGCCTCCAAACTGCTTGCCAACATGGTGTATCAGTACAAA  
GGCATGGGGCTGTCCATGGGCACCATGATCTGTGGCTGGGATAAGAGAGGCCCTGGCCTCTACTACGTGGACAGT  
GAAGGGAACCGGATTTACAGGGGCCACCTTCTCTGTAGGTTCTGGCTCTGTGTATGCATATGGGGTCATGGATCGG  
GGCTATTCTATGACCTGGAAGTGGAGCAGGCCTATGATCTGGCCCGTCGAGCCATCTACCAAGCCACCTACAGA  
GATGCCCTACTCAGGAGGTGCAGTCAACCTCTACCACGTGCGGGAGGATGGCTGGATCCGAGTCTCCAGTGACAAT  
GTGGCTGATCTACATGAGAAGTATAGTGGCTCTACCCCCTGA

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**FIGURE 1310**

MALASVLERPLFPVNQRGFFGLGGRADLLDLGPGSLSDGLSLAAPGWGVPEEPGIEMLHGTTTLAFKFRHGVIVAA  
DSRATAGAYIASQTVKKVIEINPYLLGTMAGGAADCSFWERLLARQCRIYELRNKERISVAAASKLLANMVYQYK  
GMGLSMGMTMICGWDKRGPGLYYVDSEGNRISGATFSVGSGSVYAYGVMDRGYSYDLEVEQAYDLARRAIYQATYR  
DAYSGGAVNLYHVREDGWIRVSSDNVADLHEKYSGSTP

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**FIGURE 1311**

CGGTGCCTGGTGCGGGAGCTACGGGGCCCAGGGATTGTGTTTAAAGTAGTGCTTCTACCAACATGTCCCCGTGGTT  
CCAGCGCCGGTTTTGACCGCCACATTACCATTTTTTCACCCGAGGGTCGGCTCTACCAAGTAGAATATGCTTTTA  
AGGCTATTAACCAGGGTGGCCTTACATCAGTAGCTGTCAGAGGGAAAGACTGTGCAGTAATTGTCACACAGAAGA  
AAGTACCTGACAAATTATTGGATTCCAGCACAGTGACTCACTTATTCAAGATAACTGAAAACATTGGTTGTGTGA  
TGACCGGAATGACAGCTGACAGCAGATCCCAGGTACAGAGGGCACGCTATGAGGCAGCTAACTGGAAATACAAGT  
ATGGCTATGAGATTCCTGTGGACATGCTGTGTAAAAGAATTGCCGATATTTCTCAGGTCTACACACAGAATGCTG  
AAATGAGGCCTCTTGGTTGTTGTATGATTTTAATTGGTATAGATGAAGAGCAAGGCCCTCAGGTATATAAGTGTG  
ATCCTGCAGGTTACTACTGTGGGTTTAAAGCCACTGCAGCGGGAGTTAAACAAACTGAGTCAACCAGCTTCCTTG  
AAAAAAAAAGTGAAGAAGAAATTTGATTGGACATTTGAACAGACAGTGGAAGTCAATTACATGCCTGTCTACTG  
TTCTATCAATTGATTTCAAACCTTCAGAAATAGAAGTTGGAGTAGTGACAGTTGAAAATCCTAAATTCAGGATTC  
TTACAGAAGCAGAGATTGATGCTCACCTTGTTGCTCTAGCAGAGAGAGACTAAACATTGTCGTTAGTTTACCAGA  
TCCGTGATGCCACTTACCTGTGTGTTTGGTAACAACAAACAAACATCATGGAGGTCCCTGGATTGAAAAAGGAGC  
CTCTCCCACTCCTCCTACCACCGAAGTGTTAGGACTCTATATAAATAAAAACAAGGCTTTTGGAAAAAAAAAAAA  
AAAA



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**FIGURE 1312**

MSRGSSAGFDRHITIFSPEGRLYQVEYAFKAINQGGLTSVAVRGKDCAVIVTQKKVPDKLLDSSTVTHLFKITEN  
IGCVMTGMTADSRSQVQRARYEAANWKYKYGYEIPVDMLCKRIADISQVYTQNAEMRPLGCCMILIGIDEEQGPQ  
VYKCDPAGYYCGFKATAAGVKQTESTSFLEKKVKKKFDWTFEQTVETAITCLSTVLSIDFKPSEIEVGVVTVENP  
KFRILTEAEIDAHLVALAERD

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**FIGURE 1313**

GATGTGGCCCGTGGCCTAGCTCGTCAAGTTGCCGTGGCGCGGAGAACTCTGCAAAACAAGAGGCTGAGGATTGCG  
TTAGAGATAAACAGTTACGCCGGAGCCCCGTGAGGGAAGCGTCTCCGTTGGGTCCGGCCGCTCTGCGGGACTC  
TGAGGAAAAGCTCGCACCAGGTGGACGCGGATCTGTCAAC**ATGGG**TAAAGGAGACCCCAACAAGCCGCGGGGCAA  
AATGTCCCTCGTACGCCTTCTTCGTGCAGACCTGCCGGGAAGAGCACAGAAGAAACACCCGGACTCTTCCGTCAA  
TTTCGCGGAATTCTCCAAGAAGTGTTCCGGAGAGATGGAAGACCATGTCTGCAAAGGAGAAGTCGAAGTTTGAAGA  
TATGGCAAAAAGTGACAAAGCTCGCTATGACAGGGAGATGAAAAATTACGTTCCCTCCCAAAGGTGATAAGAAGGG  
GAAGAAAAAGGACCCCAATGCTCCTAAAAGGCCACCATCTGCCTTCTTCCTGTTTTTGCTCTGAACATCGCCAAA  
GATCAAAAAGTGAACACCCTGGCCTATCCATTGGGGATACTGCAAAGAAATTGGGTGAAATGTGGTCTGAGCAGTC  
AGCCAAAGATAAACAACCATATGAACAGAAAGCAGCTAAGCTAAAGGAGAAATATGAAAAGGATATTGCTGCATA  
TCGTGCCAAGGGCAAAAGTGAAGCAGGAAAGAAGGGCCCTGGCAGGCCAACAGGCTCAAAGAAGAAGAACGAACC  
AGAAGATGAGGAGGAGGAGGAGGAAGAAGAAGATGAAGATGAGGAGGAAGAGGATGAAGATGAAGAA**TAA**ATGGC  
TATCCTTTAATGATGCGTGTGGAATGTGTGTGTGTGCTCAGGCAATTATTTTGCTAAGAATGTGAATTCAAGTGC  
AGCTCAATACTAGCTTCAGTATAAAAACTGTACAGATTTTTGTATAGCTGATAAGATTCTCTGTAGAGAAAATAC  
TTTTAAAAAATGCAGGTTGTAGCTTTTTGATGGGCTACTCATAAGTTAGATTTTACAGCTTCTGATGTTGAATG  
TTCCTAAATATTTAATGGTTTTTTTTAATTTCTGTGTGTATGGTAGCACAGCAAACCTGTAGGAATTAGTATCAAT  
AGTAAATTTTGGGTTTTTTTAGGATGTTGCATTTTCGTTTTTTTTAAAAAAATTTTGTAATAAAATTATGTATATTA  
TTTCTATTGTCTTTGTCTTAATATGCTAAGTTAATTTTCACTTTAAAAAAGCCATTTGAAGACCAAAAAAAAAA  
AA

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**FIGURE 1314**

MGKGDPNKPRGKMSSYAFFVQTCREEHKKKHPDSSVNFAEFSKKCSERWKTMSAKEKSKFEDMAKSDKARYDREM  
KNYVPPKGDKKGKKKDPNAPKRPPSAFFLFCSEHRPKIKSEHPGLSIGDTAKKLGEMWSEQSAKDKQPYEQKAAK  
LKEYEKDIAAYRAKGKSEAGKKGPGRPTGSKKKNEPEDEEEEEEEEEDEEEEEDEDEE

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**FIGURE 1315**

TCTCTTGATTTCCTAGTCTCTCGAT**ATGG**CACCTCCGTCAGTCTTTGCCGAGGTTCCGCAGGCCCAGCCTGTCCTG  
GTCTTCAAGCTCACTGCCGACTTCAGGGAGGATCCGGACCCCCGCAAGGTCAACCTGGGAGTGGGAGCATATCGC  
ACGGATGACTGCCATCCCTGGGTTTTGCCAGTAGTGAAGAAAGTGGAGCAGAAGATTGCTAATGACAATAGCCTA  
AATCACGAGTATCTGCCAATCCTGGGCCTGGCTGAGTTCCGGAGCTGTGCTTCTCGTCTTGCCCTTGGGGATGAC  
AGCCCAGCACTCAAGGAGAAGCGGGTAGGAGGTGTGCAATCTTTGGGGGGAACAGGTGCACCTTCGAATTGGAGCT  
GATTTCTTAGCGCGTTGGTACAATGGAACAAACAACAAGAACACACCTGTCTATGTGTCTCACC AACCTGGGAG  
AATCACAATGCTGTGTTTTCCGCTGCTGGTTTTAAAGACATTCCGGTCTATCGCTACTGGGATGCAGAGAAGAGA  
GGATTGGACCTCCAGGGCTTCCTGAATGATCTGGAGAATGCTCCTGAGTTCTCCATTGTTGTCTCCACGCCTGT  
GCACACAACCCAACTGGGATTGACCCAACTCCGGAGCAGTGGAAGCAGATTGCTTCTGTTCATGAAGCACCGGTTT  
CTGTTCCCTTCTTTGACTCAGCCTATCAGGGCTTCGCATCTGGAACCTGGAGAGAGATGCCTGGGCCATTTCGC  
TATTTTGTGTCTGAAGGCTTCGAGTTCTTCTGTGCCCAGTCCTTCTCCAAGAACTTCGGGCTCTACAATGAGAGA  
GTCGGGAATCTGACTGTGGTTGGAAGAAGAACCTGAGAGCATCCTGCAAGTCCTTTCCAGATGGAGAAGATCGTG  
CGGATTACTTGGTCCAATCCCCCGCCAGGGAGCACGAATTGTGGCCAGCACCTCTCTAACCTGAGCTCTTT  
GAGGAATGGACAGGTAATGTGAAGACAATGGCTGACCGGATTCTGACCATGAGATCTGAACTCAGGGCACGACTA  
GAAGCCCTCAAACCCCTGGGACCTGGAACCACATCACTGATCAAATTGGCATGTTGAGCTTCACTGGGTGAAC  
CCCAAGCAGGTTGAGTATCTGGTCAATGAAAAGCACATCTACCTGCTGCCAAGTGGTGAATCAACGTGAGTGGC  
TTAACCACCAAAAATCTAGATTACGTGGCCACCTCCATCCATGAAGCAGTCACCAAAATCCAG**TGA**AGAAACACC  
ACCCGTCCAGTACCACCAAAGTAGTTCTCTGTTCATGTGTGTTCCCTGCCTGCACAAACCTACATGTACATACCAT  
GGATTAGAGACACTTGCAGGACTGAAAGCTGCTCTGGTGAGGCAGCCTCTGTTTAAACCGGCCCCACATGAAGAG  
AACATCCCTTGAGACGAATTTGGAGACTGGGATTAGAGCCTTTGGAGGTCAAAGCAAATTAAGATTTTTATTTAA  
GAATAAAAGAGTACTTTGATCATGAGACATAGGTATCTTGTCCTCTCACTAAAAAGGAGTGTTGTGTGTGGCGG  
CCACGTGCTTCTATGTGGTGTGTTGACTCTGTACAAATTTAGTCCCAAAGATCAAGTTGTCTGAAGGAGCCAAAG  
TGTGAATGTGGGTGTGCGCTGCGGCATTAAATTCATCATCTCAACCCAGAGTGTCTGGTCTCCCTGCTCTTTCTG  
CATGGTTGTGTCCCTAGTCCTAAGCTTTGGTTCTTTAGGGTGACTGTGGTAAGAAGGATATTTAATCATGACATG  
CACGGACACGTACATATTTAACTGAAACAAGTTTTACCAACAGTATTTACTCGTGATGTGCGTAGTGCAATTCTG  
ATATTTTTGAGCCATTCTATTGTGTTCTACTTCACCTAAAAAATAAAATAAAATGTTGATCAAG

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**FIGURE 1316**

MAPPSVFAEVPQAQPVLVFKLTADFREDPDPRKVN LGVGAYRTDDCHPWVLPVVKKVEQKIANDNSLNHEYLPIL  
GLAEFRSCASRLALGDDSPALKEKRVGGVQSLGGTGALRIGADFLARWYNGTNNKNTPVYVSSPTWENHNAVFSA  
AGFKDIRSYRYWDAEKRGDLQGF LNDLENAP EFSIVVLHACAHNPTGIDPTPEQWKQIASVMKHRFLFPFFDSA  
YQGFASGNLERDAWAIRYFVSEGFEFFCAQSFSKNFGLYNERVGNLTVVGKEPESILQVLSQMEKIVRITWSNPP  
AQGARIVASTLSNPELFEEWTGNVKT MADRIIL TMRSELRARLEALKTPGTWNHITDQIGMFSFTGLNPKQVEYLV  
NEKHIYLLPSGRINVSGLT TKNLDYVATSIHEAVTKIQ

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**FIGURE 1317**

CCCACGCGTCCGCAGTACCGGAGGAGAAAAGATCGSCGGCTACCTTACTAGCTGCTCGGGGAGCCGGGGCCAGCACCG  
GCTTGGGGGCGGAGGCGTTCACTCCAGACTGGGAAAAGCCGAGAAGTTTCCACTGGGACCACTATCATGGCCGTG  
CAGTTTGACGGGGGCGTGGTTCTGGGGGCGGACTCCAGAACAACCACTGGGTCTACATCGCCAATCGAGTGACT  
GACAAGCTGACACCTATTACGACCGCATTTTCTGCTGTCGCTCAGGCTCAGCTGCTGATACCCAGGCAGTAGCT  
GATGCTGTACCTACCAGCTCGGTTTCCACAGCATTGAACTGAATGAGCCTCCACTGGTCCACACAGCAGCCAGC  
CTCTTTAAGGAGATGTGTTACCGATAACGGGAAGACCTGATGGCGGGAATCATCATCGCAGGCTGGGACCCTCAA  
GAAGGAGGGCAGGTGTACTCAGTGCCTATGGGGGTATGATGGTAAGGCAGTCCTTTGCCATTGGAGGCTCCGGG  
AGCTCCTACATCTATGGCTATGTTGATGCTACCTACCGGGAAGGCATGACCAAGGAAGAGTGTCTGCAATTCACT  
GCCAATGCTCTCGCTTTGGCCATGGAGCGGGATGGCTCCAGTGGAGGAGTGATCCGCCTGGCAGCCATTGCAGAG  
TCAGGGGTAGAGCGGCAAGTACTTTTGGGAGACCAGATACCCAAATTCGCCGTTGCCACTTTACCACCCGCCTGA

ATCCTGGGATTCTAGTATGCAATAAGAGATGCCCTGTACTGATGCAAAATTTAATAAAGTTTGTACAGAGAAAA  
AAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1318**

MAATLLAARGAGPAPAWGPEAFTPDWESREVSTGTTIMAVQFDGGVVLGADSRTTGTGSYIANRVTDKLTPIHDRI  
FCCRSGSAADTQAVADAVTYQLGFHSIELNEPPLVHTAASLFKEMCYRYREDLMAGIIIAGWDPQEGGQVYSVPM  
GGMMVRQSFAIGGSGSSYIYGVDATYREGMTKEECLQFTANALALAMERDGSSGGVIRLAAIAESGVERQVLLG  
DQIPKFAVATLPPA

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**FIGURE 1319**

ATGACGAAGAACGAGAAGAAGTCCCTCAACCAGAGCCTGGCCGAGTGGAAGCTCTTCATCTACAACCCGACCACC  
GGAGAATTCCTGGGGCGCACCGCCAAGAGCTGGGGTTTGATCTTGCTCTTCTACCTAGTTTTTTATGGGTTCTCG  
GCTGCACTCTTCTCATTACGATGTGGGTATGCTTCAGACTCTCAACGATGAGGTTCCAAAATACCGTGACCAG  
ATTCCTAGCCCAGGACTCATGGTTTTTCCAAAACCAGTGACCGCATTGGAATATACATTACAGTAGGTTCTGATCCA  
ACTTCGTATGCAGGGTACATTGAAGACCTTAAGAAGTTTCTAAAACCATATACTTTAGAAGAACAGAAGAACCCTC  
ACAGTCTGTCCTGATGGAGCACTTTTTGAACAGAAAGGTCCAGTTTATGTTGCATGTCAGTTTTCCTATTTTCATTA  
CTTCAAGCATGCAGTGGTATGAATGATCCTGATTTTGGCTATTCTCAAGGAAACCCTTGTATTCTTGTGAAAATG  
AACAGAATAATTGGATTAAAGCCTGAAGGAGTGCCAAGGATAGATTGTGTTTTCAAAGAATGAAGATATACCAAAT  
GTAGCAGTTTATCCTCATAATGGAATGATAGACTTAAAATATTTCCCATATTATGGGAAAAAACTGCATGTTGGG  
TATCTACAGCCATTGGTTGCTGTTTCAGGTCAGCTTTGCTCCTAACAACTGGGAAAGAAGTAACAGTTGAGTGC  
AAGATTGATGGATCAGCCAACCTAAAAAGTCAGGATGATCGTGACAAGTTTTTGGGACGAGTTATGTTCAAATC  
ACAGCACGTGCATAGTATGAGTAGGATATCTCCACAGAGTAAATGTTGTGTTGTCTGTCTTCATTTTGTAACAGC  
TGGACCTTCCATTCTAGAATTATGAGACCACCTTGGAGAAAGGTGTGTGGTACATGACATTGGGTTACATCATAA  
CGTGCTTCCAGATCATAGTGTTCAGTGTCTCTGAAGTAACTGCCTGTTGCCTCTGCTGCCCTTTGAACCAGTGT  
ACAGTCGCCAGATAGGGACCGGTGAACACCTGATTCCAAACATGTAGGATGGGGTCTTGTCTCTTTTTATGTG  
GTTTAATTGCCAAGTGTCTAAAGCTTAATATGCCGTGCTATGTAAATATTTTATGGATATAACAACGTGCATATT  
TTGATGTCAACAGAGTTTTAGGGATAAAATGGTACCCGGCCAACATCAAGTGACTTTATAGCTGCAAGAAATGTG  
GTATGTGGAGAAGTTCTGTATGTGAGGAAGGAAAAAAGAAAATAAAAGTGTGTTTGAAAAATATTATCTTGGGT  
TCTTTGTAATAATTTATTTTTTACATGCTGAATTAGCCTCGATCTTTTTGATTAAAGAGCACAACTTTTTTTGT  
AAACATGTAAAAAATACTGGGATTAATTTTTAGTGTGGAACTGCCTCTTATTTTAGGCTGTAGATAAAATA  
GCATTTTATAGGTTAGCCAGTGTGACTATGCACCTAATTTTTTATGAGATTAAATTCATAAGACTTAATTTGTACA  
ATAGTTTGTGAAATATCTTGTTACTGCTTTTTATTTAGCAGACTGTGGACTGTAATAAAGTATATAAATTGTGAAA  
TATAAAAACTTGGAACTTATTCAAAGCTT



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**FIGURE 1320**

MTKNEKKSLNQSLAEWKLFIIYNPTTGEFLGRTAKSWGLILLFYLVFYGFLLAALFSFTMWVMLQTLNDEVPKYRDQ  
IPSPGLMVFPKPVTALEYTFSSRSDPTSYAGYIEDLKKFLKPYTLEEQKNLTVCPDGALFEQKGPVYVACQFPISL  
LQACSGMNDPDPFGYSQGNPCILVKMNRIIGLKPEGVPRIDCVSKNEDIPNVAVYPHNGMIDLKYPYYGKKLHVG  
YLQPLVAVQVSFAPNNTGKEVTVECKIDGSANLKSQDDRDKFLGRVMFKITARA



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**FIGURE 1322**

MGSTVPRSASVLLLLLLLLRRAEQPCGAELTFELPDNAKQCFHEEVEQGVKFSLDYQVITGGHYDVCYVEDPQGN  
TIYRETKKQYDSFTYRAEVKGVYQFCFSNEFSTFSHKT VYFDFQVGDEPPILPDMGNRV TALTQMESACVTIHEA  
LKTVIDSQTHYRLREAQDRARAEDLNSRVSYWSVGETIALFVVSFSQVLLKSFTEKRPISR AVHS

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**FIGURE 1323A**

CAACCTCCAGCCAGTCCCTGGGTGCGGCGGATCCTCCCAGAGGTGGCACAATGGAGCGATCTCCAGGAGAGGGCC  
CCAGCCCCAGCCCCATGGACCAGCCCTCTGCTCCCTCCGACCCCACTGACCAGCCCCCGCTGCTCACGCAAAGC  
CAGACCCAGGTTCTGGGGGCCAACCTGCTGGCCCTGGCGCGGCGGGTGAGGCCCTGGCGGTGCTGACTTCATTTCG  
GGAGGCGGTTGCTGGTGCTGATACCTGTGTATTGGCCGGGCGAGTGGGACTCAGCGTGGGTTTCGTGCTCTTCG  
GCCTCGCCCTCTACCTGGGCTGGCGCCGGGTCCGCGACGAGAAAGAACGGAGCCTTCGAGCAGCGAGGCAGCTAC  
TGGACGACGAGGAGCAGCTCACTGCGAAAACCTCTCTATATGAGTCATCGAGAGCTACCTGCCTGGGTGAGCTTCC  
CAGACGTGGAAGGCTGAATGGCTCAATAAGATTGTGGCCAGGTCTGGCCCTTCCTGGGCCAGTATATGGAGA  
AGCTTCTGGCTGAAACTGTGGCTCCGGCTGTTAGGGGATCTAACCCCATCTGCAAACATTTACATTTACACGAG  
TGGAACCTGGGTGAAAAGCCATTGCGCATCATTGGAGTCAAGGTTACCCAGGTGAGAGAAAAGAGCAGATCCTGC  
TGGACTTGAACATCAGCTATGTAGGTGATGTGCAGATTGATGTGGAAGTGAAGAAATATTTTTCGAAAGCAGGAG  
TCAAGGGCATGCAGCTACATGGCGTTTTGCGGGTGATACTGGAGCCACTCATTGGGGACCTTCCCTTCGTGGGGG  
CTGTGTCAATGTTCTTCATCCGACGCCCCGACCCCTAGACATCAACTGGACAGGGATGACCAACCTGCTGGATATCC  
CAGGACTTAGCTCACTCTCTGACACCATGATCATGGACTCCATTGCTGCCTTCCTCGTGTTGCCCAACCGATTAC  
TGGTGCCCTTGIGCCTGACCTTCAAGATGTGGCTCAGTTGCGTTCCCCTCTGCCCAGGGGCATTATTTCGAATTC  
ACCTGCTGGCTGCTCGAGGGCTGAGTTCCAAGGACAAATATGTGAAGGGCCTGATTGAGGGCAAGTCAGACCCAT  
ATGCACTTGTGCGTTTGGGTACCCAGACATTCTGCAGTCGTGTCAATTGATGAAGAACTCAACCCACAGTGGGGAG  
AGACTTATGAGGTGATGGTACACGAGGTCCCAGGGCAGGAGATTGAAGTGGAGGTGTTTCGACAAGGATCCAGATA  
AAGATGACTTTCTGGGCAGAATGAAGCTGGATGTAGGGAAGGTGTTACAGGCTAGCGTTCTGGATGATTGGTTCC  
CTCTACAAGGTGGGCAAGGCCAAGTTCACTTGAGGCTAGAATGGCTGTCACTTTTGTGAGATGCAGAGAACTGG  
AGCAGGTTCTACAGTGAATTGGGGAGTCTCCTCTCGACCAGATCCCCCGTCAGCTGCCATCTTAGTTGTCTACC  
TGGATCGGGCCAGGATCTTCCTCTGAAGAAGGGGAACAAGGAACCCCAACCCTATGGTACAACCTGTCAATTCAGG  
ATGTGACTCAGGAGAGCAAGGCTGTCTACAGTACCAACTGCCCAGTGTGGGAGGAAGCGTTCCGGTTCTTCTCTAC  
AAGACCCTCAAAGCCAGGAGCTCGATGTGCAAGTGAAGGATGATTCCAGGGCCCTGACTTTAGGAGCACTGACGC  
TGCCCTCGGCCCGCTGCTGACTGCCCCAGAACTCATCTGGACCAGTGGTTCCAGCTCAGCAGCTCTGGTCCAA  
ACTCCAGACTCTATATGAACTAGTCATGAGGATCCTGTACTTGGATTCAATCAGAAATATGCTTCCCCACGGTGC  
CTGGTTGTCTGGTGCTTGGGACGTGGACAGTGAGAATCCCCAGAGAGGCAGCAGTGTGGATGCCCCACCTCGAC  
CCTGTACACGACTCCTGATAGCCAGTTTGGGACTGAGCATGTGCTTCGGATCCATGTATTAGAGGCCCCAGGACC  
TGATTGCCAAAGACCGTTTCTTGGGGGACTGGTGAAGGGCAAGTCAGACCCCTATGTCAAATAAAGTTGGCAG  
GACGAAGCTTCCGGAGCCATGTTGTTTCGGGAAGATCTCAATCCCCGCTGGAATGAGGTTTTTGGAGTGATCGTCA  
CATCAGTTCCAGGCCAAGAGCTAGAGGTTGAAGTCTTTGACAAGGACTTGGACAAGGATGATTTTCTGGGCAGGT  
GTAAAGTGCGTCTCACCACAGTCTTAAACAGTGGCTTCCTTGATGAGTGGCTGACCCTGGAGGATGTCCCATCTG  
GCCGCTGCACCTTGCGCCTGGAGCGTCTCACCCCCCGTCCCACTGCTGCTGAGTTAGAGGAGGTGCTGCAGGTGA  
ATAGTTTGATCCAGACTCAGAAGAGTGCAGGAGTGGCTGCGGCCCTGCTATCCATCTATATGGAGCGGGCAGAGG  
ACCTCCCGCTGCGAAAAGGCACCAAGCACCTCAGCCCTTATGCTACTCTCACTGTGGGAGATAGTTCTCATAAAA  
CCAAGACTATTTTCGCAAACCTTCAGCCCCTGTCTGGGATGAGAGTGCCCTCCTTTCTCATCAGGAAACCACACTG  
AGAGCCTAGAGTTGCAGGTTTCGGGGTGAGGGCACTGGCGTGCTGGGCTCATTATCCCTGCCCTCTCAGAGCTCC  
TCGTGGCTGACCAGCTCTGCTTGGACCGCTGGTTTACACTCAGCAGTGGTCAGGGGCAGGTGCTACTGAGAGCAC  
AGCTAGGGATCCTGGTGTCACGACTCGGGAGTGGAAGCTCATAGCCACAGCTACAGCCACAGCTCCTCATCGC  
TGAGTGAAGAACCAGAGCTCTCGGGGGGACCCCTCACATCACTCCTCAGCCCCAGAGCTCCGGCAGCGCCTAA  
CACATGTTGACAGTCCCCCTGAGGCTCCAGCCGGGCTCTGGGCCAGGTGAACTGACTCTGTGGTACTACAGTG  
AAGAACGAAAGCTGGTCAGCATTGTTTATGTTGCGGTCCCTTCGACAGAATGGACGTGATCCTCCTGATCCCT  
ATGTGTCACTGTTGCTACTGCCAGACAAGAACCAGGACCAAGAGGAGGACCTCACAGAAGAAGAGGACCCTGA  
GTCCTGAATTTAATGAACGGTTTGAGTGGGAACCTCCCTGGATGAGGCCAGAGACGAAAGCTGGATGTCTCTG  
TCAAGTCTAATTCCTCCTCATGTCAAGAGAGCGTGAGCTGCTGGGGAAGGTGCAGCTGGACCTAGCTGAGACAG  
ACCTTTCCAGGGTGTAGCCCGGTGGTATGACCTGATGGACAACAAGGACAAGGGCAGCTCCTAGGAGCTGGCGA  
GTCCAGCCTGACTGCTCTGTCTTCTGCTTCGTCTCGCTCCATCACCGCCTCAATGTGATGAGCCTAAAGCTA  
GGGTCCAAGGGCAGAGCCTGTGCCCTTCAGCCCTTTCACCTAACAGGCCCCATATTCGGGCTTTGCTGACCAAA  
GAGAAGAACCGTATGTTCCCTTTACTGCACGGCCTTTATCCTTCTGGGCCCCCTGGGGCGGGGACCTGAGCTGGCT

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**FIGURE 1323B**

GTTTCCTGCTTTGCCTGCACATTGTTCTCCCTTCCTCCCAACTCCTCAGGGCCTTCTGTATCTGTGCCTGGCCAG  
TGGCAGCACTAGCAGTGGTATTAGCTTATGCCAAATACAGCTTTGGAAGGATCTTTTTTCTTTAACTAGATGGT  
CACCTTCTTCCCTACCACACATGGGTGGGAAGGTGGACAGGCTAACCTCTCCAGCTGTGAGCCTCTTAGACTACT  
GCATGTAGCAAATGTTTCAGCAGCTCAGGCCCCCATGTCCAGTTCTGTCCCCACTGTCCTCAACCCTGTCCTGAAA  
ATTCTACTGCTTTGATGGCTGGGGCCAGTCTCTTGTCACCTTTGGAAACTGAGGACGCGTGGATTCTACTCAAGCC  
TCCAAGTAGTGGCATATCAGTCTTGGAGCTCCTAGCTGGTGATACGGAGAGGGCTTTGGAGGACTTGGGACAGCA  
GGGCCAATTTTTTTGCCCAAGTGCCTAGGCTGCTAACTCACTGACTAGAACTTAATCTGGTACTTTACAGTTTTG  
CACCAACTCTGCCAAGCCACTGGATCTTACATTAAACATCATACTCAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1324**

MERSPGEGPSPSPMDQPSAPSDPTDQPPAAHAKPDPGSGGQPAGPGAAGEALAVLTSFGRRLVLIPVYLAGAVG  
LSVGFVLFGLALYLGWRRVRDEKERSLRAARQLLDDEEQLTAKTLYMSHRELPAWVSFPDVEKAEWLNKIVAQVW  
PFLGQYMEKLLAETVAPAVRGSNPFLQTFTFTRVELGEKPLRIIGVKVHPGQRKEQILLDLNISYVGDVQIDVEV  
KKYFCKAGVKGMQLHGVLRVILEFLIGDLPFVGA VSMFFIRRP TLDINWTGMTNLLDIPGLSSLSDTMIMDSIAA  
FLVLPNRLLVPLVPDLQDVAQLRSPLPRGIIRIHLLAARGLSSKDKYVKGLIEGKSDPYALVRLGTQTFC SRVID  
EELNPQWGETYEV MVHEVP GQEIEVEVF D KDPDKDDFLGRMKLDVGKVLQASVLDDWFPLQGGQGQVHLRLEWLS  
LLSDAEKLEQVLQWNWGVSSRPDPPSAAILVVYLDRAQDLPLKKGNKEPNPMVQLSIQDVTQESKAVYSTNCPVW  
EEAFRFFLQDPQSQELDVQVKDDSRALT LGALTPLARLLTAPELILDQWFQLSSSGPNSRLYMKLVMRILYLD S  
SEICFP T VPGCPGAWDVDS ENPQRGSSVDAPPRC HTTPDSQFGTEHVLRIHVLEAQDLIAKDRFLGGLVKGKSD  
PYVKLKLAGRSFRSHVVREDLNPRWNEVF E VIVTSVPGQELEV E VFDKDLDKDDFLGRCKVRLTTVLNSGFLEW  
LTLEDVPSGRLHLRLERLTPRPTAAEELEEV LQVNSLIQTQKSAELAAALLSIYMERAE DLPLRKGTKHLSPYATL  
TVGDSSHKT KTISQTSAPVWDESASFLIRKPHTESLELQVRGEGTGVLGSLSLPLSELLVADQLCLDRWFTLSSG  
QGQVLLRAQLGILVSQHSGVEAHSHSYSHSSSSLS EEP ELSGGPPHITSSAPELRQRLTHVDSPLEAPAGPLGQV  
KLTLWYYSEERKLVSIVHGCRSLRQNGRDPDPYVSLLLLPDKNRGTRKRTS QKKRTLSPEFNERFEWELPLDEA  
QRRKLDVSVKSNSSFMSRERELLGKVQLDLAETDLSQGVARWYDLMDNKGSS

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**FIGURE 1325**

GAATTCGCTTTGGATCCATTTCCATCGGTCCTTACAGCCGCTCGTCAGACTCCAGCAGCCAAG**ATG**GTGAAGCAG  
ATCGAGAGCAAGACTGCTTTTCAGGAAGCCTTGGACGCTGCAGGTGATAAACTTGTAGTAGTTGACTTCTCAGCC  
ACGTGGTGTGGGCCTTGCAAAATGATCAACCCTTCTTTTCATTCCCTCTCTGAAAAGTATTCCAACGTGATATTC  
CTTGAAGTAGATGTGGATGACTGTCAGGATGTTGCTTCAGAGTGTGAAGTCAAATGCACGCCAACATTCCAGTTT  
TTTAAGAAGGGACAAAAGGTGGGTGAATTTTCTGGAGCCAATAAGGAAAAGCTTGAAGCCACCATTAAATGAATTA  
GTC**TAA**TCATGTTTTCTGAAAACATAACCAGCCATTGGCTATTTAAACTTGTATTTTTTTTATTTACAAAATATAA  
ATATGAAGACATAACCAGTTGCCATCTGCGTGACAATAAACATTATGCTAA

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**FIGURE 1326**

MVKQIESKTAFQEALDAAGDKLVVVDFSATWCGPCKMINPFFHSLSEKYSNVIFLEVDVDDCQDVASECEVKCTP  
TFQFFKKGQKVGEFSGANKEKLEATINELV



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**FIGURE 1327**

CTTGGAGGGAGGGATTAGAAGCCGCTAGACTTTTTTTCCTCCCCTCTCAGTAGCACGGAGTCCGAATTAATTGGA  
TTTCATTCACTGGGGAGGAACAAAACTATCTGGGCAGCTTCATTGAGAGAGATTTCATTGACACTAAGAGCCAGC  
GGCTGCAGCTGGGTGCAGAGAGAACCTCCGGCTTTACTTCTGTCTCGTCTGCCCCAACCGCTAGCCTCGGCTTGG  
GTAAGGCGAGGCGGAATTAAACCCCGCTCCGAGAGCGGCAGCTTCGCGCGCGGTGCGCTCGGCCTATGCCGTGCC  
CGAGGGGCGTCTGGTAGGCACCCCGCCCTCTCCCGCAGCTCGACCCCC**ATG**ATAGATACGCTCAGACCCGTGCC  
TTCGCGTCGGAAATGGCGATCAGCAAGACGGTGGCGTGGCTCAACGAGCAGCTGGAGCTGGGCAACGAGCGGCTG  
CTGCTGATGGACTGCCGGCCGAGGAGCTATACGAGTCGTGCGACATCGAGTCGGCCATCAACGTGGCCATCCCG  
GGCATCATGCTGCGGCGCTGCAGAAGGGTAACCTGCCGGTGC GCGCGCTCTTCACGCGCGGCGAGGACCGGGAC  
CGCTTCACCCGGCGCTGTGGCACCGACACAGTGGTGTCTACGACGAGAGCAGCAGCGACTGGAACGAGAATACG  
GGCGGCGAGTCGTTGCTCGGGCTGTGCTCAAGAAGCTCAAGGACGAGGGCTGCCGGGCGTTCTACCTGGAAGGT  
GGCTTCAGTAAGTTCCAAGCCGAGTTCTCCCTGCATTGCGAGACCAATCTAGACGGCTCGTGTAGCAGCAGCTCG  
CCGCCGTTGCCAGTGTGGGGCTCGGGGGCTGCGGATCAGCTCTGACTCTTCCTCGGACATCGAGTCTGACCTT  
GACCGAGACCCCAATAGTGCAACAGACTCGGATGGTAGTCCGCTGTCCAACAGCCAGCCTTCCTTCCCAGTGGAG  
ATCTTGCCCTTCCTCTACTTGGGGCTGTGCCAAAGACTCCACCAACTTGGACGTGTTGGAGGAATTCGGCATCAAG  
TACATCTTGAAACGTCACCCCCAATTTGCCGAATCTCTTTGAGAACGCAGGAGAGTTTAAATACAAGCAAATCCCC  
ATCTCGGATCACTGGAGCCAAAACCTGTCCCAGTTTTTCCCTGAGGCCATTTCTTTTCATAGATGAAGCCCGGGGC  
AAGAACTGTGGTGTCTTGGTACATTGCTTGGCTGGCATTAGCCGCTCAGTCACTGTGACTGTGGCTTACCTTATG  
CAGAAGCTCAATCTGTCGATGAACGATGCCTATGACATTGTCAAAATGAAAAATCCAACATATCCCTAACTTC  
AACTTCATGGGTCAGCTGCTGGACTTCGAGAGGACGCTGGGACTCAGCAGCCCATGTGACAACAGGGTTCCAGCA  
CAGCAGCTGTATTTTACCACCCCTTCCAACCAGAATGTATACCAGGTGGACTCTCTGCAATCTACG**TGA**AAGACC  
CCACATCCCTCCTTGTGGAATGTGTCTGGCCCTTCAGCAGTTTTCTTGGCAGCATCAGCTGGGCTGCTTTCTT  
TGTGTGTGGCCCCAGGTGTCAAAATGACACCAGCTGTCTGTACTAGACAAGGTTACCAAGTGC GGAATTGGTTAA  
TACTAACAGAGAGATTTGCTCCATTCTCTTTGGAATAACAGGACATGCTGTATAGATACAGGCAGTAGGTTTGCT  
CTGTACCCATGTGTACAGCCTACCCATGCAGGGACTGGGATTTCAGGACTTCCAGGCGCATAGGGTAGAACCAAA  
TGATAGGGTAGGAGCATGTGTTCTTTAGGGCCTTGTAAGGCTGTTTCTTTTGCATCTGGAAGTACTATATAAT  
TGTCTTCAATGAAGACTAATTCAATTTTGCATATAGAGGAGCCAAAGAGAGATTTAGCTCTGTATTTGTGGTAT  
CAGTTTGGAAAAAAAATCTGATACTCCATTTGATTATTGTAAATATTTGATCTTGAATCACTTGACAGTGTGTTG  
TTTGAATTGTGTTTGTGTTTTTCTTTGATGGGCTTAAAGAAATTATCCAAAGGGAGAAAGAGCAGTATGCCACT  
TCTTAAACAGAACAAAAACAAAAAAGAAATTGTGCTCTTTTCTAATCCAAAGGGTATATTTGCAGCATGCTTG  
ACTTTACCAATTCTGATGACATCTTTACGGACACTATTATCACTAAGACCTTGTTATGGCGAAGTCTTTAGTCTT  
TTTCATGTATTTTCTCATGATTTTTTCTCTTTATGTAGTTTGACTATGCCCTTACCTTTGTAAATATTTTTGCTT  
GTGTTGTGCGAAAGGGGATAATCTGGGAAAGACACCAATCATGGGCTCACTTTAAAAAAGAAAGAATAAAAAA  
ACCTTCAGCTGTGCTAAACAGTATATTACCTCTGTATAAAATTCCTTCAGGGAGTGTCACCTCAAATGCAATACTT  
TGGGTTGGTTTCTTTCTTTAAAAAATTTGTATAAACTGGAAGTGTGTGTGTGTGAGCATGGGTACCCATTTG  
ATAAGAGAAATGCATTTGATTGTGAAGAAGGGAGAGTTAAATTCTCCATTATGTTTCGTGGTGTAAGTTTAGAGC  
TGGAATTTATTATAAGAATGTAAAACCTTAAATTATTAATAAATAACTATTTTGGCTATTGAAAAAAAAAAAAA  
AAAAAAAAA

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**FIGURE 1328**

MIDTLRPVPFASEMAISKTVAWLNEQLELGNERLLLMDCRPQELYESSHIESAINVAIPGIMLRRLQKGNLPVRA  
LFTRGEDRDRFTRRCGTDTVVLYDESSSDWNENTGGESLLGLLLKKLKDEGCRAFYLEGGFSKFQAEFSLHCETN  
LDGSCSSSSPPLPVLGLGGLRISSDSSSDIESDLDRDPNSATDSDGSPLSNSQPSFPVEILPFLYLGC AKDSTNL  
DVLEEFGIKYILNVTPLNLPNLFENAGEFKYKQIPISDHWSQNL SQFFPEAISFIDEARGKNCGLVHCLAGISRS  
VTVTVAYLMQKLNLSMNDAYDIVKMKKSNI SPNFNFMGQLLDFERTLGLSSPCDNRVPAQQLYFTTPSNQNVYQV  
DSLQST